Mazak

ELECTRICAL CIRCUIT DIAGRAMS

FOR QT-15N/18N T32B

SET NO: 34106KA

The Other Thoroughbred From Kentucky

T32B1

Mazak

ELECTRICAL CIRCUIT DIAGRAMS

FOR QT-15N/18N T32B

SET NO: 34106KA

The Other Thoroughbred From Kentucky

T32B1

ELECTRICAL DIAGRAM SET No.

Machine type: BT15N, BT18N

Machine No.:

Set No.: 34106KA

Date: 3-2-91

Drawn by: K. Y

Checked by: Okumura "

Approved by:

Line voltage	200 ~ 460 V
Input power requirements	BT15N : 31.3 (3) 41.3 (EX) BT18N : 41.3 (3) (EX) KVA

NC equipment	MAZATROL T32B
Spindle motor	AC BT15N (3): 11 BT18N (EX) (3) 15 KW

ROM No.

Option

Elementary Diagram List

1	34106A1100	21	34106A1120	41	
2	1101	22	1121	42	
3	1102	23	1122	43	
4	1103	24	1123	44	
5	1104	25	1124	45	
6	1105	26	1125	46	
7		27	1126	47	
8	34106A1107	28	1127	48	
9		29	1128	49	
10		30	1129	50	
11	34106A1110	31	1130	51	
12	1111	32	1131	52	
13	1112	33	1132	53	
14	1113	34	1133	54	
15	1114	35	1134	55	
16	1115	36	1135	56	
17	1116	37		57	
18	1117	38		58	
19	1118	39		59	
20	1119	40		60	

Remarks

39106WC → 34106KA

FOR USA VERSION 7.M

Set NO.

Mazak YAMAZAKI MAZAK CORPORATION

S57.4. 2.000

Set No.: Machine No.:

Control Circuit Diagram
Parts List

1		34106A1400½		31	O	34106A1427		61	O	34106A1453	Remarks
2		400½		32	O	428		62	O	454	
3	O	401½		33		429		63	O	455	
4		~~401½~~		34	O	430A		64		456	
5		~~401½~~		35				65			
6		402		36				66			
7	O	403		37				67			
8	O	404		38				68	O	34106A1460	
9	O	405		39				69		~~461~~	
10	O	406		40				70			
11	O	407		41	O	34106A1437½		71			
12	O	408		42	O	437½		72			
13	O	409		43				73			
14		410		44				74			
15	O	411		45		34106A1440		75			
16				46		441		76			
17				47		442½		77			
18	O	34106A1414		48		442½		78			
19	O	415		49		443		79			
20	O	416		50		444		80			
21	O	417		51				81			
22	O	418		52				82			
23		419A		53				83			
24	O	420A		54				84			
25				55	O	34106A1449		85			
26				56	O	450½		86			
27				57	O	450½		87			
28				58	O	450½		88			
29				59				89			
30	O	34106A1426		60	O	34106A1452		90			

Set No.

Mazak YAMAZAKI MAZAK CORPORATION

S 56. 9. 5,000

ELEMENTARY DIAGRAM LIST

00

SHEET	TITLE	DRAWING NO.
101	M CODE LIST	
102	Do.	
103	Do.	
104	Do.	
105	Do.	
106		
107	M CODE LIST	
108		
109		
110	USER PARAMETER (METRIC, INCH)	
111	MACHINE PARAMETER (METRIC, INCH)	
112	Do.	
113	Do.	
114	Do.	
115	Do.	
116	USER PARAMETER (METRIC)	
117	MACHINE PARAMETER (Do.)	
118	USER PARAMETER (INCH)	
119	MACHINE PARAMETER (Do.)	
120	MACHINE PARAMETER TIMER (1)	
121	Do. (2)	
122	PLC PARAMETER DATA (1)	
123	Do. (2)	
124	PLC PARAMETER BIT (1)	
125	Do (2)	
126	Do. (3)	
127	Do. (4)	
128	MACHINE PARAMETER TIMER (1)	
129	Do. (2)	
130	PLC PARAMETER DATA (1)	
131	Do (2)	
132	PLC PARAMETER BIT (1)	
133	Do (2)	
134	Do. (3)	
135	Do (4)	
136		
137		
138		

BLOCK NUMBER SHEET 100 LINE

APPROVED T.O 9-21-90

DESIGNED K.Y 90.5.17

DRAWN 1-1

Mazak YAMAZAKI MAZAK CORPORATION

TITLE ELEMENTARY DIAGRAM LIST

CONTROL HAICHIKOL T32 B

DRAWING NO. 34VBA1100

SHEET ____ OF ____

SIZE A3

SHEET 100 LINE

BLOCK NUMBER

DRAWING NO.

SHEET ____ OF ____

INDEX NUMBER

SHEET 102

M CODE	COMMENT	QT15N, QT18N		NOTE
50				
51	ERROR DETECT OFF	○		
52	ERROR DETECT ON	○		
53	CHAMFERING OFF	□		
54	CHAMFERING ON	□		
55	PIECE COUNT	△		
56	FRONT DOOR OPEN	△		
57	FRONT DOOR CLOSE	△		
58	AIR BLAST	△		
59	PROGRAM END READY	△		
60	MILL MODE "N" GEAR			
61	Do. "L" GEAR			
62	Do. "H" GEAR			
63				
64				
65				
66	SPINDLE CLAMP C-AXIS			
67	SPINDLE BRAKE C-AXIS			
68	CYCLE BARFEEDER CALL 1	△		
69	Do 2	△		
70	SPINDLE OVER LOAD INVALID			
71	Do. VALID			
72	CHUCK INTERNAL CLAMP MODE			
73	CHUCK EXTERNAL CLAMP MODE			
74	WORK REST JOINT ON			
75	Do. OFF			
76	AUTO JAW UNLOAD			
77	AUTO JAW LOAD			
78	WORK REST OPEN DOG VALID			
79	Do. INVALID			
80				
81	WORK MEASURE AIR BLAST ON	△		
82	Do OFF	△		
83	TOOL EYE ARM FORWARD	△		
84	Do REVERSE	△		
85				
86	WORK REST 1 UNCLAMP			
87	Do CLAMP			
88	WORK REST 2 UNCLAMP			
89	Do. CLAMP			
90	PARTS CATCHER FORWARD	△		END SIGNAL NEGLECT
91	PARTS CATCHER REVERSE	△		Do.
92				
93				
94				
95				
96				
97				
98	EIA → EIA CALL REPEAT ON	□		
99	Do. OFF	□		

○ STANDARD □ EIA/ISO △ OPTION

APPROVED T.O 9-21-90

DESIGNED K.Y 90.1.9

DRAWN 1-3

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: M CODE LIST

CONTROL: MAZATROL T32B

DRAWING NO. 3410641102

SHEET ____ OF ____

SIZE 3

SHEET 102

INDEX NUMBER

DRAWING NO.

SHEET ____ OF ____

INDEX NUMBER
SHEET 104 LINE

M CODE	COMMENT	QT15N, QT18N		NOTE
150				
151				
152				
153				
154				
155				
156				
157				
158				
159				
160				
161				
162				
163				
164				
165				
166				
167				
168				
169				
170				
171				
172				
173				
174				
175				
176				
177				
178				
179				
180				
181				
182				
183				
184				
185				
186				
187				
188				
189				
190				
191				
192				
193				
194				
195				
196				
197				
198	EIA→MAZATROL CALL REPEAT ON	☐		
199	Do OFF	☐		

APPROVED 9-21-90 T.O
DESIGNED 90.9.19 K.Y
DRAWN 1-5

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: M CODE LIST

CONTROL: MAZATROL T32B
DRAWING NO.: JA106A1104
SHEET: ____ OF: ____
SIZE: 3

SHEET 104 LINE
INDEX NUMBER

○ STANDARD ☐ EIA/ISO △ OPTION

DRAWING NO.
SHEET. ____ OF. ____

M CODE	COMMENT	QT15N, QT18N		NOTE
350				
351	M352 CANCEL	○		
352	M248 VALID	○		
353	M354 CANCEL	○		
354	M249 VALID	○		
355	M356 CANCEL	○		
356	TOOL INDEX INSTANT FIN VALID	○		
357				
358	SP CHUCK AIR BLAST			
359				
360				
361				
362				
363				
364				
365				
366				
367				
368				
369				
370	OVERLOAD DETECTION INEFFECTIVE	△		
371	STARTING OVERLOAD DETECTION	△		
372	STOPPING OVERLOAD DETECTION	△		
373	RESTARTING OVERLOAD DETECTION	△		
374	PROCESSING AGAINST OVERLOAD (FEED HOLD)	△		
375	DO. (FEED HOLD OR SPINDLE STOP)	△		
376	DETECTION LEVEL ENTERING IN %	△		
377	DETECTION TIME ENTERING	△		
378	ENTERING SUPERIOR LIMIT IN % AND NUMBER OF DETECTIONS	△		
379	RECORDING DETECTION TABLE NO.	△		
380				
381				
382				
383				
384				
385				
386				
387				
388				
389				
390				
391				
392				
393				
394				
395				
396				
397				
398				
399				

○ STANDARD □ EIA/ISO △ OPTION

INDEX NUMBER SHEET 107 LINE

APPROVED T.O 9-21-90

DESIGNED %.9.19 %.Y

DRAWN 1-7

MAZAK WWW.MAZAK.COM CORPORATION

TITLE M CODE LIST

DRAWING NO. 3410641/107 SHEET 3 OF

CONTROL MAZATROL T32B SIZE

INDEX NUMBER SHEET 107 LINE

DRAWING NO. SHEET OF

	X-2	Z-2	C-2	4-2	5-2
A1	0	0	0	0	0
A2	0	0	0	0	0
A3	0	0	0	0	0
A4	0	0	0	0	0
A5	0	0	0	0	0
A6	0	0	0	0	0
A7	0	0	0	0	0
A8	0	0	0	0	0

	X-2	Z-2	C-2	4-2	5-2
A9	0	0	0	0	0
A10	0	0	0	0	0
A11	0	0	0	0	0
A12	0	0	0	0	0
A13	0	0	0	0	0
A14	0	0	0	0	0
A15	0	0	0	0	0
A16	0	0	0	0	0

*** 機械パラメータ No.2 ***
MACHINE PARAMETER No.2

C1	0	C17	0	C33	0	C49	0	C65	0
C2	0	C18	0	C34	0	C50	0	C66	0
C3	0	C19	0	C35	0	C51	0	C67	0
C4	0	C20	0	C36	0	C52	0	C68	0
C5	0	C21	0	C37	0	C53	0	C69	0
C6	0	C22	0	C38	0	C54	0	C70	0
C7	0	C23	0	C39	0	C55	0	C71	0
C8	0	C24	0	C40	0	C56	0	C72	0
C9	0	C25	0	C41	0	C57	0	C73	0
C10	0	C26	0	C42	0	C58	0	C74	0
C11	0	C27	0	C43	0	C59	0	C75	0
C12	0	C28	0	C44	0	C60	0	C76	0
C13	0	C29	0	C45	0	C61	0	C77	0
C14	0	C30	0	C46	0	C62	0	C78	0
C15	0	C31	0	C47	0	C63	0	C79	0
C16	0	C32	0	C48	0	C64	0	C80	0

*** 機械パラメータ No.4 ***
MACHINE PARAMETER No.4

APPROVED T.O 9-21-90
DESIGNED K.Y 90.9.17
DRAWN I-9

Mazak YAMAZAKI MAZAK CORPORATION

TITLE MACHINE PARAMETER (METRIC, INCH)

CONTROL MAZATROL T32B
DRAWING NO. 3410641111
SIZE 3
SHEET ___ OF ___

DRAWING NO
SHEET ___ OF ___

	X-1	Z-1	C-1	4-1	5-1	X-2	Z-2	C-2	4-2	5-2
S33	& *1)	& *1)	0	0	0	0	0	0	0	0
S34	10	12	0	0	0	0	0	0	0	0
S35	20	20	0	0	0	0	0	0	0	0
S36	4680	4680	0	0	0	0	0	0	0	0
S37	600	600	0	0	0	0	0	0	0	0
S38	150	150	0	0	0	0	0	0	0	0
S39	31000	31000	0	0	0	0	0	0	0	0
S40	100	100	0	0	0	0	0	0	0	0

	X-1	Z-1	C-1	4-1	5-1	X-2	Z-2	C-2	4-2	5-2
S41	& *1)	& *1)	0	0	0	0	0	0	0	0
S42	31000	31000	0	0	0	0	0	0	0	0
S43	& *1)	&0000	0	0	0	0	0	0	0	0
S44	0	0	0	0	0	0	0	0	0	0
S45	0	0	0	0	0	0	0	0	0	0
S46	0	0	0	0	0	0	0	0	0	0
S47	0	0	0	0	0	0	0	0	0	0
S48	0	0	0	0	0	0	0	0	0	0

*** 機械パラメータ No.7 ***
MACHINE PARAMETER No.7

	X-1	Z-1	C-1	4-1	5-1	X-2	Z-2	C-2	4-2	5-2
S49	&0000	&0000	0	0	0	0	0	0	0	0
S50	0	0	0	0	0	0	0	0	0	0
S51	0	0	0	0	0	0	0	0	0	0
S52	0	0	0	0	0	0	0	0	0	0
S53	0	0	0	0	0	0	0	0	0	0
S54	0	0	0	0	0	0	0	0	0	0
S55	0	0	0	0	0	0	0	0	0	0
S56	0	0	0	0	0	0	0	0	0	0

	X-1	Z-1	C-1	4-1	5-1	X-2	Z-2	C-2	4-2	5-2
S57	0	0	0	0	0	0	0	0	0	0
S58	0	0	0	0	0	0	0	0	0	0
S59	0	0	0	0	0	0	0	0	0	0
S60	0	0	0	0	0	0	0	0	0	0
S61	0	0	0	0	0	0	0	0	0	0
S62	0	0	0	0	0	0	0	0	0	0
S63	0	0	0	0	0	0	0	0	0	0
S64	0	0	0	0	0	0	0	0	0	0

*** 機械パラメータ No.8 ***
MACHINE PARAMETER No.8

△ *1)

PARAMETER	STANDARD		ABSOLUTE DETECT SYSTEM (OPTION)		X AXIS MAGNE SCALE (OPTION)
	X-1	Z-1	X-1	Z-1	X-1
S33	0820	0820	08A5	08A5	0834
S41	1181	1182	9981	9982	4181
S43	0		0		107

& Marking : Hexadecimal (16進法)

△ After 91.1.9 K.Y

APPROVED	A.G	91.1.22
DESIGNED	K.Y	91.1.9
DRAWN		

YAMAZAKI MAZAK CORPORATION Mazak

TITLE: MACHINE PARAMETER (METRIC, INCH)

CONTROL: MAZATROL T32B
DRAWING NO: 34106A1113A
SHEET ____ OF ____
SIZE: 3

INDEX NUMBER SHEET 113 LINE

DRAWING NO
SHEET ____ OF ____

R1	45	R17	0	R33	0	R49	□□□□□□□□	R65	□□000□□□
R2	0	R18	0	R34	0	R50	□□000□□□	R66	00000000
R3	45	R19	0	R35	0	R51	□□□□□□□□	R67	□□0□0000
R4	0	R20	0	R36	0	R52	□00□□□□□	R68	00000000
⚠R5	5	R21	0	R37	0	R53	□00□0□□□	R69	00000000
⚠R6	15	R22	0	R38	0	R54	□□□□□□□1	R70	00000000
R7	0	R23	0	R39	0	R55	000□0000	R71	00000000
R8	0	R24	0	R40	0	R56	00000000	R72	00000000
R9	0	R25	0	R41	0	R57	□□□□1000	R73	00000000
R10	0	R26	0	R42	0	R58	0000□□□□	R74	00000000
R11	0	R27	0	R43	0	R59	□□□□□□□□	R75	00000000
R12	0	R28	0	R44	0	R60	□□01□000	R76	00000000
R13	0	R29	0	R45	0	⚠R61	00□□1000	R77	00000000
R14	0	R30	45	R46	0	R62	0□□□0□00	R78	00000000
R15	0	R31	0	R47	0	R63	0□000□□□	R79	00000000
R16	0	R32	0	R48	0	R64	00000000	R80	00000000

機械パラメータ No.11

MACHINE PARAMETER No.11

01	00101010	017	0000□100	033	0	049	88 <X>	065	0 < >
02	01000110	018	00□10□01	034	0	050	90 <Z>	066	0 < >
03	01100000	019	01□0□□□□	⚠035	0	051	0 < >	067	0 < >
04	00101110	020	00000000	036	0	052	0 < >	068	0 < >
05	00000111	021	00000000	037	0	053	0 < >	069	0 < >
06	00001100	022	00000000	⚠038	2	054	0 < >	070	0 < >
07	00000111	023	00000000	⚠039	2	055	0 < >	071	0 < >
08	11001111	024	00000000	040	1	056	0 < >	072	0 < >
09	00001010	025	00000000	041	16	057	0 < >	073	0 < >
010	00000000	026	00000000	042	1	058	0 < >	074	0 < >
011	00000000	027	00000000	043	0	059	0 < >	075	0 < >
012	00000000	028	00000000	⚠044	0	060	0 < >	076	0 < >
013	10100□111	029	00000000	⚠045	0	061	0 < >	077	0 < >
014	00000000	030	00000000	046	0	062	0 < >	078	0 < >
015	00000101	031	00000000	047	0	063	0 < >	079	0 < >
016	00000000	032	00000000	048	0	064	0 < >	080	0 < >

機械パラメータ (システム)

MACHINE PARAMETER (SYSTEM)

INDEX NUMBER
SHEET 115 LINE

⚠ changed parameter '91.1.19 K.Y

APPROVED '91.1.22 A.G
DESIGNED '91.1.19 K.Y
DRAWN

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE
MACHINE PARAMETER
[METRIC, INCH]

CONTROL
DRAWING NO
MAZATROL T32B
34106A1115A
SHEET OF
SIZE 3

SHEET 115 LINE
INDEX NUMBER

DRAWING NO
SHEET OF

	X-1	Z-1	C-1	4-1	5-1
A1	30000	30000	0	0	0
A2	0	0	0	0	0
A3	5000	5000	0	0	0
A4	0	0	0	0	0
A5	0	0	0	0	0
A6	0	-150000	0	0	0
A7	0	0	0	0	0
A8	0	*1)	0	0	0

	X-1	Z-1	C-1	4-1	5-1
A9	10000	10000	0	0	0
A10	*4)	-500000	0	0	0
A11	0	0	0	0	0
A12	5000	5000	0	0	0
A13	0	0	0	0	0
A14	0	0	0	0	0
A15	0	0	0	0	0
A16	0	0	0	0	0

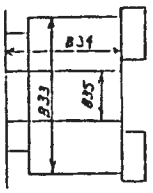
*** 機械パラメータ No.1 ***
MACHINE PARAMETER No.1

B1	1	B17	0	B33	*2)	B49	-260000	B65	0
B2	*4)	B18	0	B34	*2)	B50	*4)	B66	0
B3	0	B19	0	B35	*2)	B51	*4)	B67	0
B4	0	B20	0	B36	0	B52	-260000	B68	0
B5	0	B21	0	B37	110000	B53	*4)	B69	0
B6	0	B22	0	B38	400000	B54	*4)	B70	0
B7	0	B23	0	B39	80000	B55	-260000	B71	0
B8	0	B24	0	B40	15000	B56	*4)	B72	0
B9	0	B25	0	B41	64000	B57	*4)	B73	500000
B10	0	B26	0	B42	109300	B58	0	B74	500000
B11	*4)	B27	0	B43	60000	B59	0	B75	0
B12	0	B28	0	B44	8000	B60	0	B76	0
B13	0	B29	0	B45	130000	B61	*3)	B77	0
B14	0	B30	0	B46	*4)	B62	*3)	B78	0
B15	0	B31	0	B47	660000	B63	*3)	B79	0
B16	0	B32	0	B48	630000	B64	*3)	B80	0

*** 機械パラメータ No.3 ***
MACHINE PARAMETER No.3

*1) A8 (Z-1) = (Parameter B48) − (Parameter B34) − 100000

*2) Set the each chuck value.



*3) Set the best value of each machine

*4)

SHEET / PARA	8D	8D-16P	12D	SHEET / PARA	8D	8D-16P	12D
A10	-350000	-350000	-430000	B51	100000	125000	100000
B2	8	16	12	B53	95000	96000	64000
B11	8	16	12	B54	100000	95000	100000
B46	360000	340000	360000	B56	58000	58000	90000
B50	15000	35000	55000	B57	100000	120000	100000

APPROVED	T.O	9-21-90	
DESIGNED	K.Y	9.5.19	
DRAWN	I.15		

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: MACHINE PARAMETER [METRIC]

CONTROL: MAZATROL 730B
DRAWING NO. 3410641117
SHEET ____ OF ____
SIZE: 3

DRAWING NO.
SHEET ____ OF ____

	X-1	Z-1	C-1	4-1	5-1
A1	11811	11811	0	0	0
A2	0	0	0	0	0
A3	1969	1969	0	0	0
A4	0	0	0	0	0
A5	0	0	0	0	0
A6	0	-59000	0	0	0
A7	0	0	0	0	0
A8	0	*1)	0	0	0

	X-1	Z-1	C-1	4-1	5-1
A9	4000	3750	0	0	0
A10	*4)	-197500	0	0	0
A11	0	0	0	0	0
A12	1969	1969	0	0	0
A13	0	0	0	0	0
A14	0	0	0	0	0
A15	0	0	0	0	0
A16	0	0	0	0	0

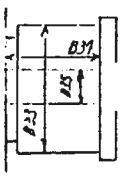
機械パラメータ No.1
MACHINE PARAMETER No.1

B1	1	B17	0	B33	*2)	B49	-102300	B65	0
B2	*4)	B18	0	B34	*2)	B50	*4)	B66	0
B3	0	B19	0	B35	*2)	B51	*4)	B67	0
B4	0	B20	0	B36	0	B52	-102300	B68	0
B5	0	B21	0	B37	43400	B53	*4)	B69	0
B6	0	B22	0	B38	157500	B54	*4)	B70	0
B7	0	B23	0	B39	31500	B55	-102300	B71	0
B8	0	B24	0	B40	4900	B56	*4)	B72	0
B9	0	B25	0	B41	25200	B57	*4)	B73	209000
B10	0	B26	0	B42	43040	B58	0	B74	200000
B11	*4)	B27	0	B43	60000	B59	0	B75	0
B12	0	B28	0	B44	3150	B60	0	B76	0
B13	0	B29	0	B45	51200	B61	*3)	B77	0
B14	0	B30	0	B46	*4)	B62	*3)	B78	0
B15	0	B31	0	B47	260000	B63	*3)	B79	0
B16	0	B32	0	B48	242500	B64	*3)	B80	0

機械パラメータ No.3
MACHINE PARAMETER No.3

*1) A8 (Z-1) = (Parameter B48) - (Parameter B34) - 39370.

*2) Set the each chuck value.



*3) Set the best value of each machine.

*4)

MODEL / I.D.	8D	8D-16P	12D
A10	-138000	-138000	-170000
B2	8	16	12
B11	8	16	12
B46	141700	134000	141700
B50	5910	21600	21600
B51	39400	49200	39400
B53	37400	37800	25200
B54	39400	37800	39400
B56	22840	22840	35500
B57	39400	49200	39400

INDEX NUMBER
SHEET 119 LINE
APPROVED T.O 9-21-90
DESIGNED Y.Y 90.9.14
DRAWN 1.17
Mazak YAMAZAKI MAZAK CORPORATION
TITLE MACHINE PARAMETER (INCH)
CONTROL MAZATROL T32B
DRAWING NO. 3410641119
SHEET 3 OF
SIZE
SHEET 119 LINE
INDEX NUMBER
DRAWING NO.
SHEET OF

T No.	設定値	単位	内容
T33	0		サブ主軸起動タイマー / ギヤシフト・タイマー 1
T34	0		サブ主軸停止タイマー / ギヤシフト・タイマー 2
T35			/ ギヤシフト・タイマー 3
T36	0		タップサイクル時のサブ主軸反転タイマー
T37	0		サブ・チャック エアーブロー・タイマー
T38			
T39	0		サブ主軸ギア潤滑異常タイマー
T40			
T41	0		連動モード時のサブ主軸内エアーブロー・タイマー
T42	0		連動モード中のメイン主軸遅延タイマー
T43			
T44			
T45			
T46			
T47	5		チャック・ワークパルス用タイマー (サメカ・イルコ用)
T48	0	100 msec	ボール・スクリュー潤滑異常タイマー
T49	0		スライドウェイモータ OFF タイマー
T50	0		スライドウェイモータ1サイクルタイマー
T51	0		テール・スリーブ後退時間 (LS無しタイプ)
T52	0		テール スリーブ前進時間 (LS無しタイプ)
T53			
T54			
T55			
T56			
T57			
T58			
T59			
T60			
T61			
T62			
T63			
T64			

INDEX NUMBER
SHEET 121
LINE

APPROVED 9.21.'90 T.O
DESIGNED '90.9.19 K.Y
DRAWN 1.19

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE
MACHINE PARAMETER
TIMER (2)

CONTROL MAZATROL T32B
DRAWING NO. 34106A1121
SHEET ____ OF ____
SIZE 3

SHEET 121
INDEX NUMBER

DRAWING NO
SHEET ____ OF ____

R No.	設定値	範囲	内容	PLC DEVICE
R33			主軸オリエント（M19 又は 手動時）の角度 (1/10° UNIT)	
R34			主軸オリエント（ロボット使用時）の角度 (1/10° UNIT)	
R35			主軸オリエント（M16）指令時のオリエント角度 (1/10° UNIT)	
R36			主軸オリエント（M17）指令時のオリエント角度 (1/10° UNIT)	
R37			主軸オリエント（M18）指令時のオリエント角度 (1/10° UNIT)	
R38				
R39		0 ～ ±9999		
R40				
R41				
R42				
R43				
R44				
R45				
R46				
R47				
R48				

INDEX NUMBER
SHEET 123 LINE

A Alter 91.1.19 M.Y

APPROVED 91.1.22 A.G
DESIGNED 91.1.19 M.Y
DRAWN

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE PLC PARAMETER DATA (2)

CONTROL MAMTROL T32B
DRAWING NO 34106A1123A
SHEET 3 OF
SIZE

SHEET 123 LINE
INDEX NUMBER

DRAWING NO
SHEET OF

R No.	ビット	内容	設定内容				PLC DEVICE
R55	0	ミル仕様	0	ミル無し	1	ミル付	M48
	1	C軸仕様	0	C軸無し	1	C軸付	M49
	2		0		1		M50
	3	AJC仕様	0	AJC無し	1	AJC付	M51
	4	チャッカー仕様	0	チャッカー	1	ユニバーサル	M52
	5		0		1		M53
	6		0		1		M54
	7		0		1		M55
R56	0	X軸オーバートラベルLS付	0		1	X軸OT LS付	M56
	1	Z 〃	0		1	Z軸OT LS付	M57
	2		0		1		M58
	3		0		1		M59
	4		0		1		M60
	5		0		1		M61
	6		0		1		M62
	7	非常停止解除 M/C 方式	0		1	M/C 方式	M63
R57	0		0		1		G 0
	1		0		1		G 1
	2		0		1		G 2
	3	バーフィーダアラーム入力信号切換え	0	OFFでアラーム	1	ONでアラーム	G 3
	4	バーフィーダ/ロボットモード切換スイッチ	0		1	有効	G 4
	5	バーフィーダ 6MX タイマー完了方式 (イルコ B/F)	0		1	イルコ B/F	G 5
	6	バーフィーダ 6MX 外部 FIN 有効	0		1	有効	G 6
	7	YME サイクル バーフィーダ仕様	0		1	YME サイクル B/F	G 7
R58	0	油圧圧力保証	0		1	有効	G 8
	1	空圧圧力保証	0		1	有効	G 9
	2	容積式潤滑方式	0		1	容積式	G10
	3	自動電源遮断有効中アラームで電源OFF	0		1	電源 OFF	G11
	4		0		1		G12
	5		0		1		G13
	6		0		1		G14
	7		0		1		G15
R59	0	テール ストック有無	0	テールストック無	1	テール ストック有	G16
	1	テール ボディ固定	0	テール ボディフリー	1	テール ボディ固定	G17
	2	テール ボディアンクランプ スイッチ 保守メニュー	0		1	保守メニュー	G18
	3	テール ボディ前進主軸回転中有効	0		1	前進有効	G19
	4	テール スリーブ確認タイマー方式	0		1	タイマー方式	G20
	5	主軸回転中のテール後退有効 Mコード (M231)	0		1	有効	G21
	6	テール ボディ スイッチ無	0	スイッチ有	1	スイッチ無	G22
	7	テール スリーブ前進端 後退端確認付	0	センサー無	1	センサー有	G23
R60	0		0		1		G24
	1		0		1		G25
	2		0		1		G26
	3	エアーブーラント仕様	0		1	エアーブーラント仕様	G27
	4	タレット高速タイプ	0	タレット低速	1	タレット高速	G28
	5		0		1		G29
	6	刃物台タイプ 1 (注1)	0		1		G30
	7	刃物台タイプ 2 (注1)	0		1		G31

(注1)

パラメータ \ タイプ	8D/8P	8D/16P	12D/12P	12D/24P
R60-6	0	0	1	1
R60-7	0	1	0	1

INDEX NUMBER SHEET 125 LINE

APPROVED 9-21-90 T.O

DESIGNED 10.9.19 K.Y

DRAWN 1.23

Mazak YAMAZAKI MAZAK CORPORATION

TITLE PLC PARAMETER BIT (2)

CONTROL MAZATROL T32 B

DRAWING NO. 34106A1125

SIZE B

SHEET 3 OF

INDEX NUMBER SHEET 125 LINE

DRAWING NO

SHEET OF

R NO.	ビット	内容	設定内容 0	設定内容 1	PLC DEVICE
R 67	0		0	1	G64
	1		0	1	G65
	2		0	1	G66
	3 △	チップコンベア 間欠 運転仕様	0	1 有効	G67
	4	ドア閉状態からのサイクルスタート（自動ドア開閉仕様）	0 禁止	1 可能	G68
	5 △	ロボットサービス中 ミスチャックアラーム 無効	0	1 有効	G69
	6	主軸冥通クーラント	0	1 有効	G70
	7	主軸エアークーラント	0	1 有効	G71
R	0		0	1	
	1		0	1	
	2		0	1	
	3		0	1	
	4		0	1	
	5		0	1	
	6		0	1	
	7		0	1	
R	0		0	1	
	1		0	1	
	2		0	1	
	3		0	1	
	4		0	1	
	5		0	1	
	6		0	1	
	7		0	1	
R	0		0	1	
	1		0	1	
	2		0	1	
	3		0	1	
	4		0	1	
	5		0	1	
	6		0	1	
	7		0	1	
R	0		0	1	
	1		0	1	
	2		0	1	
	3		0	1	
	4		0	1	
	5		0	1	
	6		0	1	
	7		0	1	
R	0		0	1	
	1		0	1	
	2		0	1	
	3		0	1	
	4		0	1	
	5		0	1	
	6		0	1	
	7		0	1	

△ Added parameter (400-A1 VER.) '91.1.18 A.Y

APPROVED	'91.1.22	A.G
DESIGNED	'91.1.18	A.Y
DRAWN		

Mazak YAMAZAKI MAZAK CORPORATION

TITLE: PLC PARAMETER BIT (4)

CONTROL: MAZATROL T32B
DRAWING NO.: 34106A1127A
SHEET ____ OF ____
SIZE: 3

SHEET 127

INDEX NUMBER SHEET 127

DRAWING NO
SHEET ____ OF ____

T No.	SETTING VALUE	UNIT	COMMENT
T33	0		SP spindle rotation time / Gear shift time 1.
T34	0		SP spindle stop time. / Gear shift time 2.
T35			/ Gear shift time 3.
T36	0		SP spindle inverse time at tap cycle.
T37	0		SP Chuck air blast time.
T38			
T39	0		SP spindle gear lubrication alarm time.
T40			
T41	0		Air blast time in sp spindle at synchronization.
T42	0		Main spindle rotation delay time at synchronization
T43			
T44			
T45			
T46			
T47	5		Chuck clamp pulse time. (SAMECA or IRCO B/F)
T48	0	100 msec	Ball screw lubrication alarm time.
T49	0		Slideway motor off time.
T50	0		Slideway motor 1 cycle time.
T51	0		Tail sleeve reverse time (without L.S)
T52	0		Tail Sleeve forward time (without L.S)
T53			
T54			
T55			
T56			
T57			
T58			
T59			
T60			
T61			
T62			
T63			
T64			

INDEX NUMBER
SHEET 29
UNIT
APPROVED T.O 9-21-90
DESIGNED K.Y 90.8.17
DRAWN 1-22
Mazak YAMAZAKI MAZAK CORPORATION
TITLE MACHINE PARAMETER TIMER (2)
DRAWING NO 3410641129
SHEET ____ OF ____
CONTROL MAZATROL T32B
SIZE 3
SHEET 129
INDEX NUMBER
DRAWING NO
SHEET ____ OF ____

R No.	SETTING VALUE	RANGE	COMMENT	PLC DEVICE
R33			ADJUST SPINDLE ORIENT (M19 & MANUAL) (UNIT 1°/10)	
R34			SPINDLE ORIENT ANGLE (ROBOT) (UNIT 1°/10)	
R35			SPINDLE ORIENT ANGLE (M16) (UNIT 1°/10)	
R36			SPINDLE ORIENT ANGLE (M17) (UNIT 1°/10)	
R37			SPINDLE ORIENT ANGLE (M18) (UNIT 1°/10)	
R38				
R39		0 ~ ±9999		
R40		⚠		
R41				
R42				
R43				
R44				
R45				
R46				
R47				
R48				

INDEX NUMBER
SHEET /31 LINE
⚠ Alter 91.1.19 K.Y

APPROVED	91.1.22	A.G
DESIGNED	91.1.19	K.Y
DRAWN		

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: PLC PARAMETER DATA (2)

CONTROL: M-ATROL T32B
DRAWING NO: 3410641131A
SHEET ____ OF ____
SIZE: 3

SHEET /31 LINE
INDEX NUMBER

DRAWING NO
SHEET ____ OF ____

R No.	BIT	COMMENT	SETTING VALUE				PLC DEVICE
R55	0	MILL spec.	0		1	Mill	M48
	1	C Axis spec.	0		1	C Axis	M49
	2		0		1		M50
	3	AJC spec.	0		1	AJC	M51
	4	Universal spec. (tail)	0	Chucker	1	Universal	M52
	5		0		1		M53
	6		0		1		M54
	7		0		1		M55
R56	0	X Axis OT. LS use	0		1	X OT LS	M56
	1	Z Axis OT. LS. use	0		1	Z OT LS	M57
	2		0		1		M58
	3		0		1		M59
	4		0		1		M60
	5		0		1		M61
	6		0		1		M62
	7	M/C method of EMERGENCY STOP release	0		1	M/C type	M63
R57	0		0		1		G 0
	1		0		1		G 1
	2		0		1		G 2
	3	Select BF alarm signal	0	OFF: alarm	1	ON: alarm	G 3
	4	BF/ROBOT MODE SELECT SWITCH	0		1	Valid	G 4
	5	6MX: timer fin type (IRCO B/F)	0		1	IRCO B/F	G 5
	6	6MX: external fin type	0		1	valid	G 6
	7	YME Cycle Bar Feeder	0		1	YME cycle B/F	G 7
R58	0	Hydraulic Pressure Interlock	0		1	valid	G 8
	1	Air Pressure Interlock	0		1	valid	G 9
	2	Slideway lubrication of capacity type	0		1	capacity type	G10
	3	Power off for alarm at Auto Power Off Mode.	0		1	power off	G11
	4		0		1		G12
	5		0		1		G13
	6		0		1		G14
	7		0		1		G15
R59	0	Tail Body use	0		1	Tail body	G16
	1	Tail Body fixed	0	Tail body free	1	Tail body fix	G17
	2	Tail Body unclamp switch (menu switch)	0		1	menu switch	G18
	3	Tail Body forward valid in spindle rotation	0		1	valid	G19
	4	Tail Sleeve for/rev timer confirmation spec.	0		1	Timer spec.	G20
	5	Tail reverse valid in spindle rotation: M231	0		1	valid	G21
	6	Tail body switch not use	0	switch use	1	Switch not use	G22
	7	Tail Sleeve forward/reverse end confirmation	0		1	use	G23
R60	0		0		1		G24
	1		0		1		G25
	2		0		1		G26
	3	Air Coolant	0		1	Air Coolant	G27
	4	Turret high speed type	0	Low speed	1	High speed	G28
	5		0		1		G29
	6	Turret type 1 (note 1)	0		1		G30
	7	Turret type 2 (note 1)	0		1		G31

(note 1)

type / Ibrunecter	8D/8P	8D/16P	12D/12P	12D/24P
R60-6	0	0	1	1
R60-7	0	1	0	1

INDEX NUMBER
SHEET 133 TYPE 01

APPROVED T.O 9-21-90
DESIGNED K.Y 10.9.17
DRAWN 1.31

MAZAK YAMAZAKI MAZAK CORPORATION

TITLE PLC PARAMETER BIT (2)

DRAWING NO. J4106A1/33 SHEET ____ OF ____
CONTROL MAZATROL T32B
SIZE A3
SHEET 133 LINE
INDEX NUMBER

DRAWING NO
SHEET ____ OF ____

INDEX NUMBER
SHEET 135 LINE

△ Added parameter (400-A1 VER.) '91.1.18 X.Y

R NO.	BIT	COMMENT	SETTING VALUE				PLC DEVICE
	0		0		1		G64
	1		0		1		G65
	2		0		1		G66
R 67△	3	Chip conveyor interval spec.	0		1	Valid	G67
	4	Cycle Start Condition (Auto Door Spec)	0	Door Close	1	Door Open	G68
	△5	Miss chuck cancel at Robot service	0		1	Valid	G69
	6	Spindle through coolant	0		1	valid	G70
	7	Spindle Air Coolant	0		1	valid	G71
R	0		0		1		
	1		0		1		
	2		0		1		
	3		0		1		
	4		0		1		
	5		0		1		
	6		0		1		
	7		0		1		
R	0		0		1		
	1		0		1		
	2		0		1		
	3		0		1		
	4		0		1		
	5		0		1		
	6		0		1		
	7		0		1		
R	0		0		1		
	1		0		1		
	2		0		1		
	3		0		1		
	4		0		1		
	5		0		1		
	6		0		1		
	7		0		1		
R	0		0		1		
	1		0		1		
	2		0		1		
	3		0		1		
	4		0		1		
	5		0		1		
	6		0		1		
	7		0		1		
R	0		0		1		
	1		0		1		
	2		0		1		
	3		0		1		
	4		0		1		
	5		0		1		
	6		0		1		
	7		0		1		

APPROVED	'91.1.22	A.G
DESIGNED	'91.1.19	X.Y
DRAWN		

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: PLC PARAMETER BIT (4)

CONTROL: MAZATROL T32B
DRAWING NO.: 3410A1135A
SHEET 3 OF

SHEET 135 LINE
INDEX NUMBER

DRAWING NO
SHEET ____ OF ____

ELEMENTARY DIAGRAM LIST

SHEET	TITLE
437 1/2	IKURA BAR FEEDER I/F (OPTION)
437 3/2	DO S-TYPE I/F (OPTION)
440	POSITION CODER CONNECTION CIRCUIT
441	ORIENTATION CARD CONNECTION CIRCUIT
442 1/2	AXIS DETECTOR CIRCUIT
442 3/2	DO (ABSOLUTE DETECT SYSTEM : OPTION)
443	NC BUS CABLE
444	MAGNESCALE F/B CIRCUIT (X AXIS)
449	WORK MEASURE CIRCUIT & TOOL EYE CIRCUIT (OPTION)
450 1/3	SPECIAL OPTION YMD BAR FEEDER I/F OF IRCO BAR FEEDER
450 2/3	DO OF SAMECA BAR FEEDER
450 3/3	DO OF LNS BAR FEEDER
452	OPTION CIRCUIT
453	YME CYCLE BAR FEEDER I/F PC I/O CIRCUIT (OPTION)
454	YME CYCLE BAR FEEDER I/F (1) (OPTION)
455	DO (2) (OPTION)
460	OPTION CONTACT CIRCUIT (1)
461	DO. (2)

APPROVED 9-21-90 T.O
DESIGNED 90.9.19 K.Y
DRAWN 1.35

Mazak
YAMAZAKI MAZAK CORPORATION

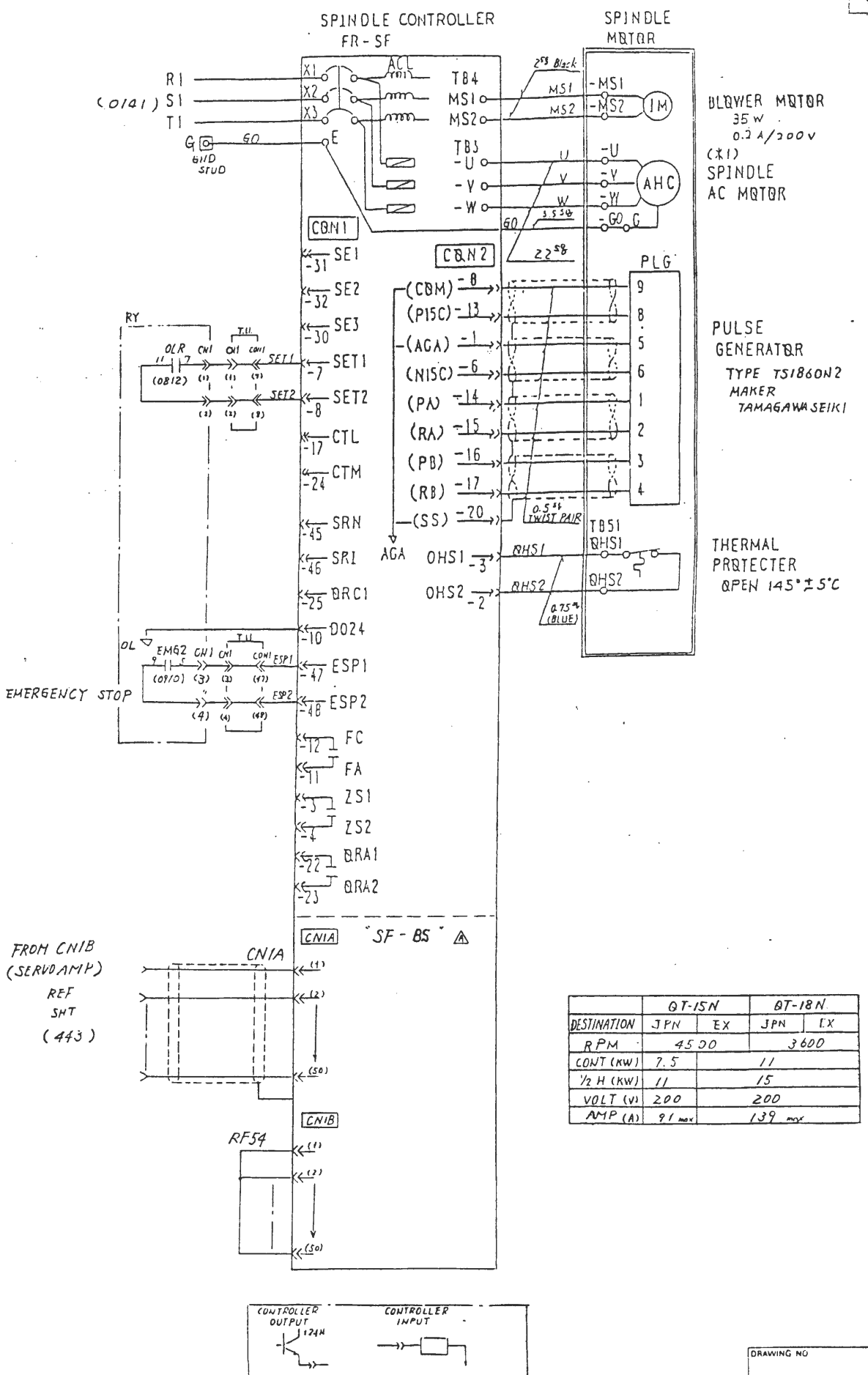
TITLE ELEMENTARY DIAGRAM LIST (2)

CONTROL MAZATROL T32B
DRAWING NO. 34106A1 400 2/2
SHEET ____ OF ____
SIZE 3

DRAWING NO.
SHEET ____ OF ____

Changed SF-TL + SF-BS '91.1.22 A.Y

02



	QT-15N		QT-18N	
DESTINATION	JPN	EX	JPN	EX
RPM	4500		3600	
CONT (KW)	7.5		11	
½ H (KW)	11		15	
VOLT (V)	200		200	
AMP (A)	91 max		139 max	

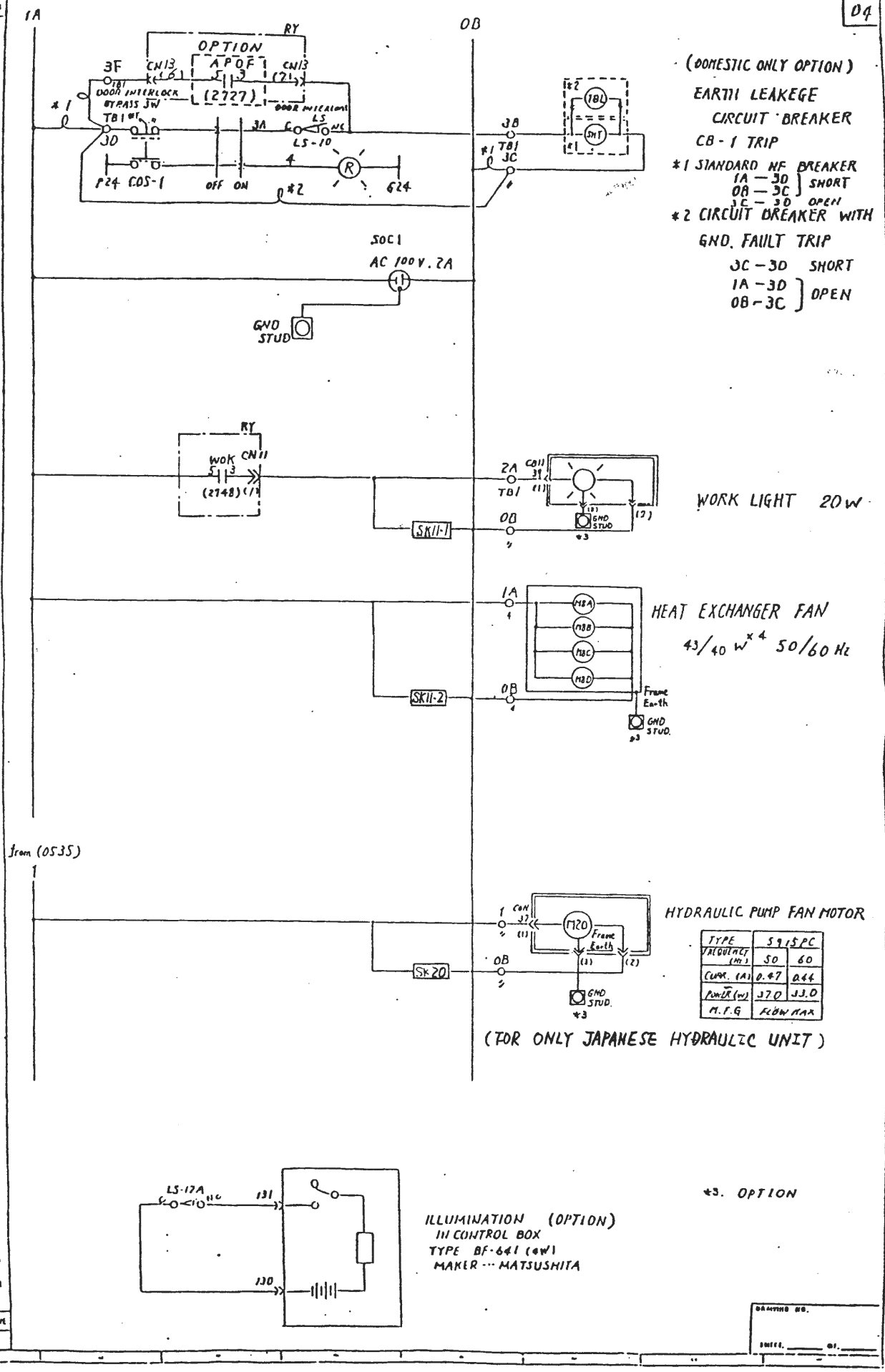
APPROVED	A.G	'91.1.22	
DESIGNED	A.Y	'91.1.19	
DRAWN			

Mazak
YAMAZAKI MAZAK CORPORATION

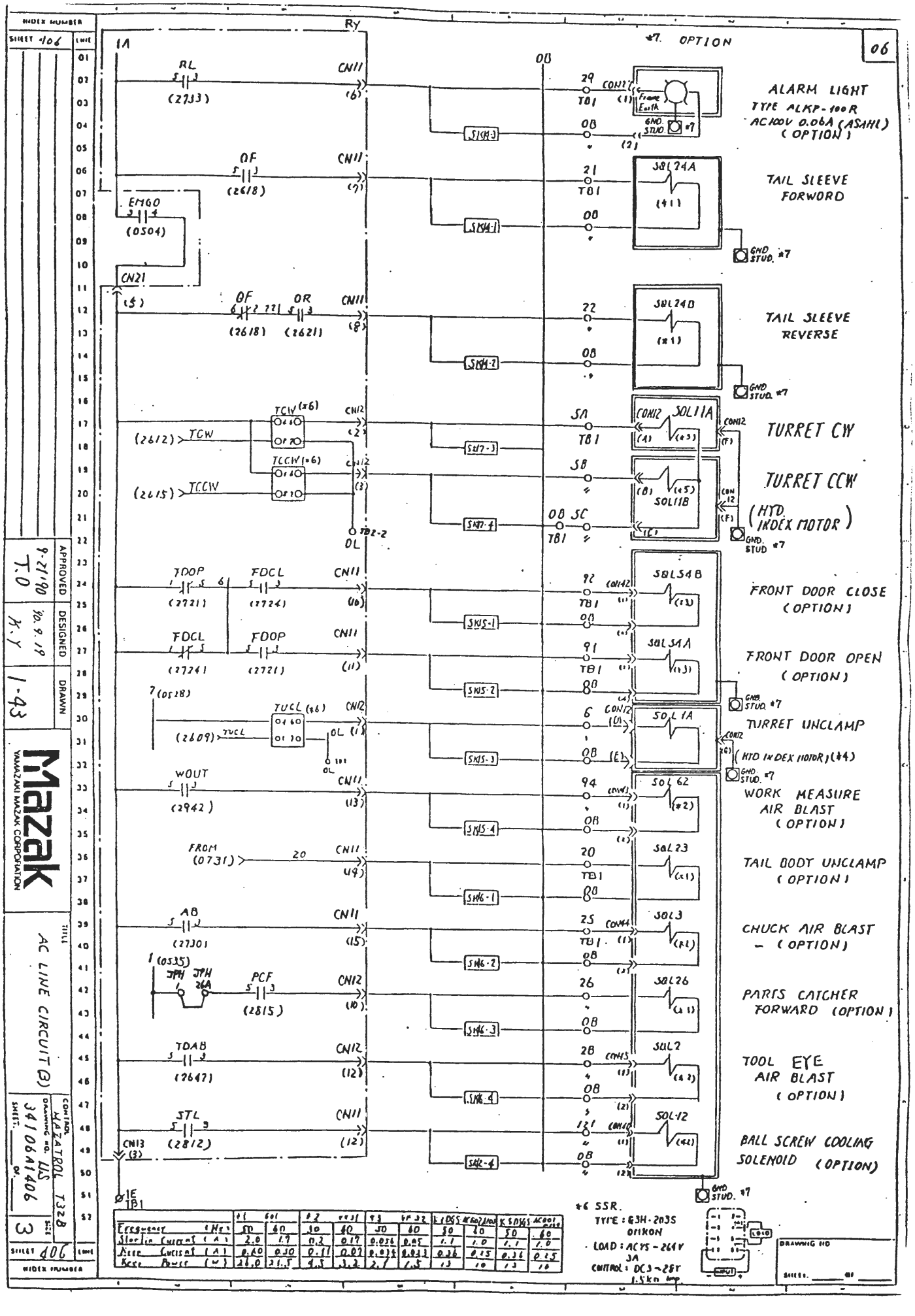
TITLE: SPINDLE CONTROLLER CIRCUIT

CONTROL DRAWING NO. MAZATROL J32B 34106 A1 402A
SHEET ____ OF ____
SIZE 3

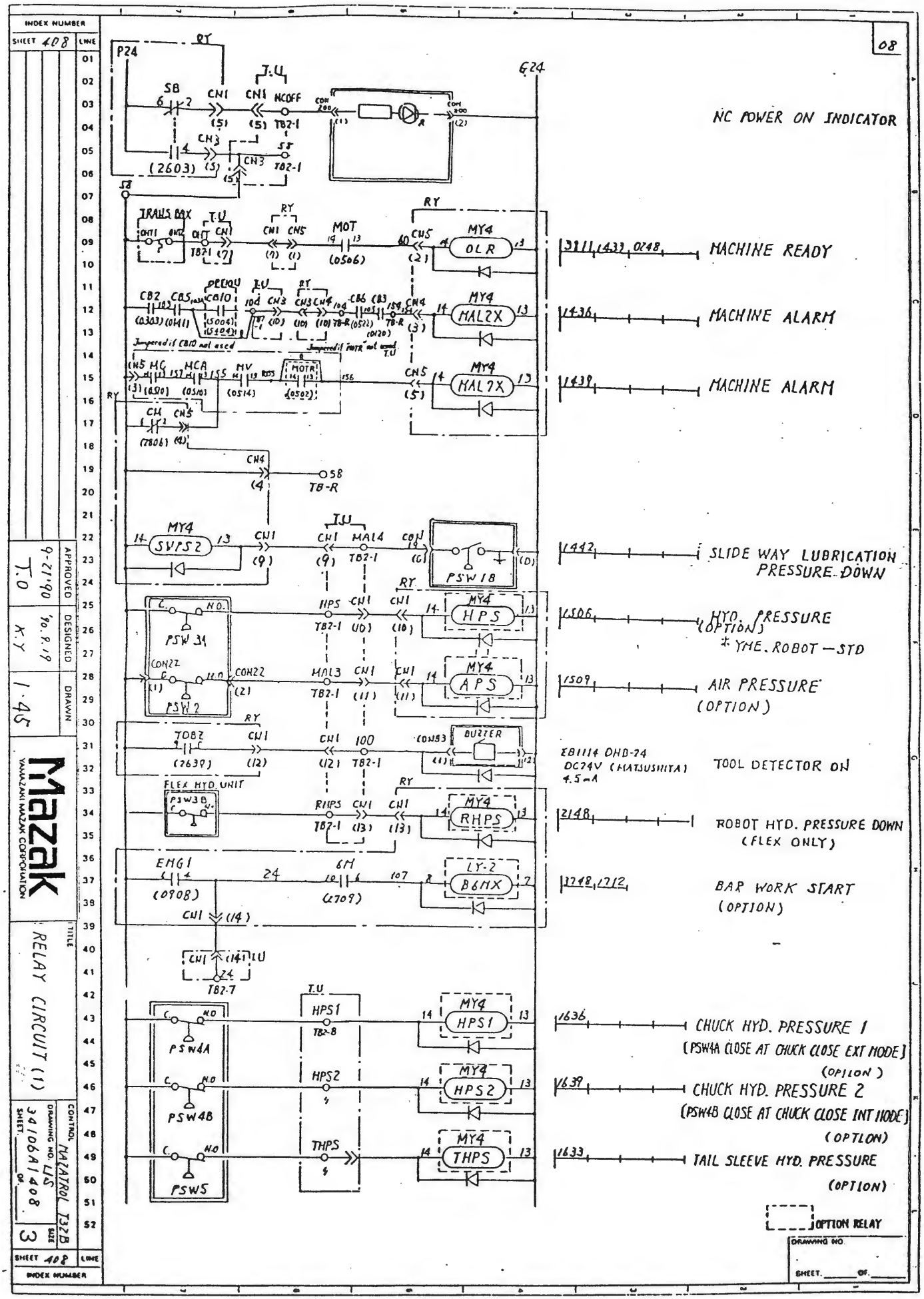
DRAWING NO
SHEET ____ OF ____

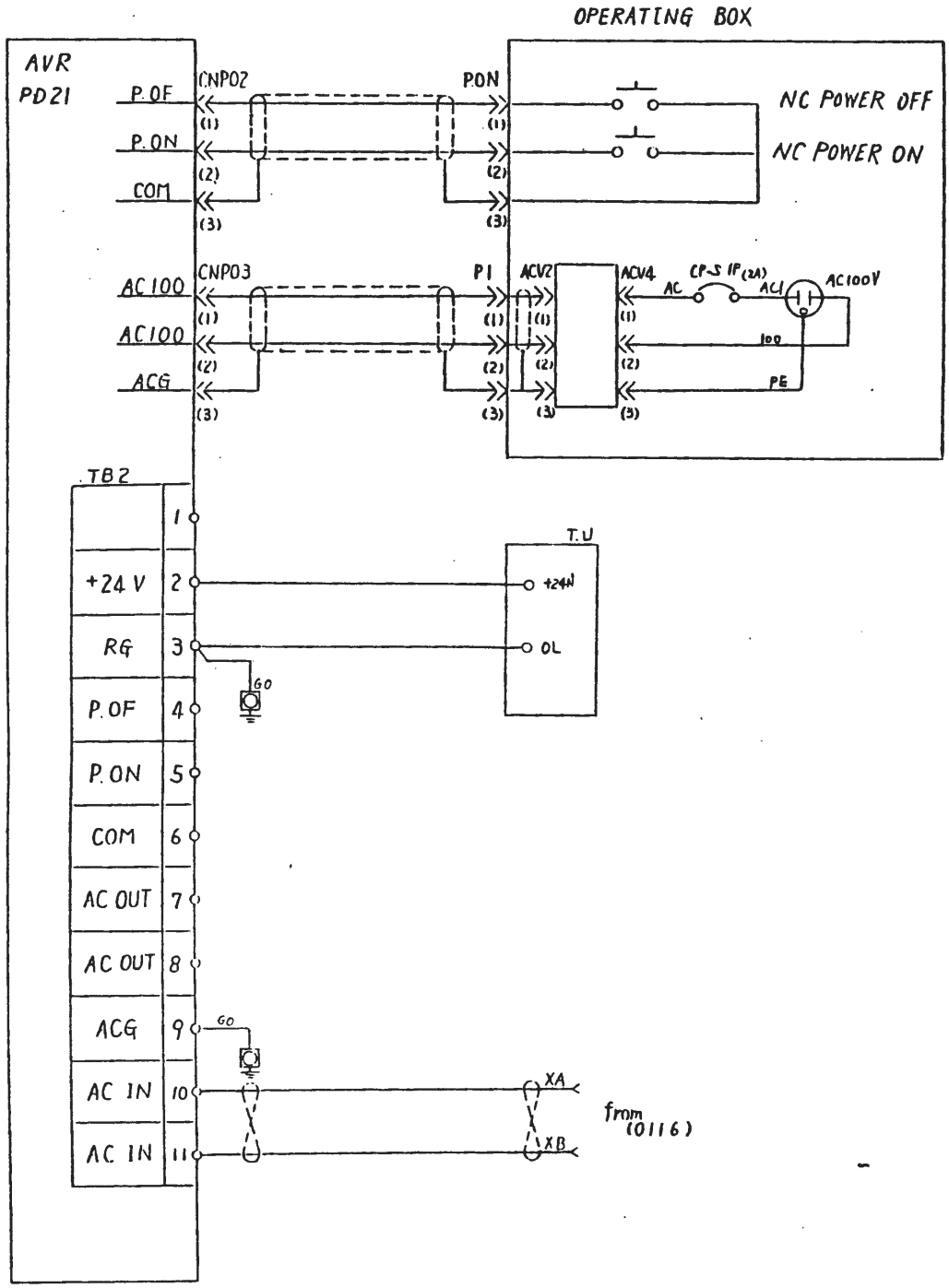


SHEET 404		LINE
INDEX NUMBER		
APPROVED	T.O	9-21-90
DESIGNED	K.Y	'90.9.19
DRAWN	1·41	
Mazak YAMAZAKI MAZAK CORPORATION		
TITLE	AC LINE CIRCUIT (1)	
CONTROL	MAZATROL T32B	
DRAWING NO.	3410641404 US	
SHEET	3	SIZE
SHEET 404		LINE
INDEX NUMBER		



	#1	#61	#2	#62	#3	#63	K SOLS	K SOLS	K SOLS	K SOLS
Frequency (Hz)	50	60	50	60	50	60	50	60	50	60
Starting Current (A)	2.0	1.9	0.2	0.17	0.036	0.05	1.1	1.0	1.1	1.0
Keep Current (A)	0.60	0.50	0.11	0.07	0.013	0.011	0.26	0.15	0.36	0.25
Keep Power (W)	26.0	21.5	4.5	3.2	2.1	1.5	13	10	13	10


INDEX NUMBER
SHEET 408
LINE
08
P24
G24
NC POWER ON INDICATOR
MACHINE READY
MACHINE ALARM
MACHINE ALARM
SLIDE WAY LUBRICATION PRESSURE-DOWN
HYD. PRESSURE (OPTION)
* YHE. ROBOT — STD
AIR PRESSURE (OPTION)
EB1114 OHD-24 DC24V (MATSUSHITA) 4.5~A
TOOL DETECTOR ON
ROBOT HYD. PRESSURE DOWN (FLEX ONLY)
BAR WORK START (OPTION)
CHUCK HYD. PRESSURE 1
(PSW4A CLOSE AT CHUCK CLOSE EXT MODE)
(OPTION)
CHUCK HYD. PRESSURE 2
(PSW4B CLOSE AT CHUCK CLOSE INT MODE)
(OPTION)
TAIL SLEEVE HYD. PRESSURE
(OPTION)
OPTION RELAY
DRAWING NO.
SHEET. OF.
APPROVED T.O 9-21-90
DESIGNED K.Y '90.9.19
DRAWN 1.45
Mazak
YAMAZAKI MAZAK CORPORATION
TITLE
RELAY CIRCUIT (1)
CONTROL MAZATROL T32B
DRAWING NO. LIS 3410681408
SHEET. 3 OF.
SIZE
SHEET 408
INDEX NUMBER



APPROVED	T.O	9-21-90
DESIGNED	K.Y	90.8.9
DRAWN	I-47	

YAMAZAKI MAZAK CORPORATION

TITLE: NC POWER SUPPLY CIRCUIT

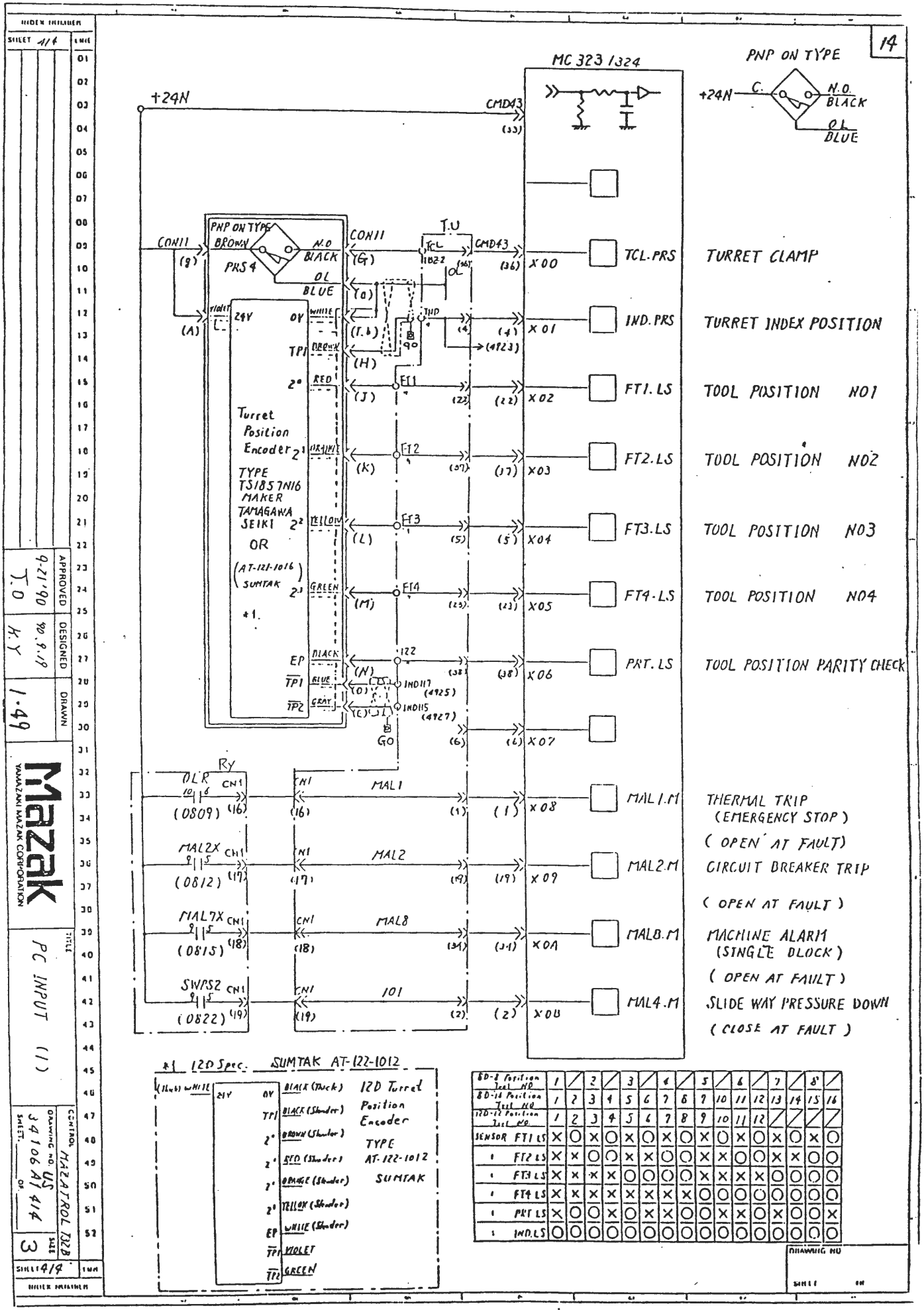
CONTROL: HAZATROL T32B

DRAWING NO. 34106A1410

SHEET 3 SIZE

SHEET 410

INDEX NUMBER



*1 12D Spec. SUMTAK AT-122-1012

8D-8 Position Tool NO	1		2		3		4		5		6		7		8	
8D-16 Position Tool NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
12D-12 Position Tool NO	1	2	3	4	5	6	7	8	9	10	11	12				
SENSOR FT1 LS	X	O	X	O	X	O	X	O	X	O	X	O	X	O	X	O
" FT2 LS	X	X	O	O	X	X	O	O	X	X	O	O	X	X	O	O
" FT3 LS	X	X	X	X	O	O	O	O	X	X	X	X	O	O	O	O
" FT4 LS	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O
" PRT LS	X	O	O	X	O	X	X	O	O	X	X	O	X	O	O	X
" IND.LS	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

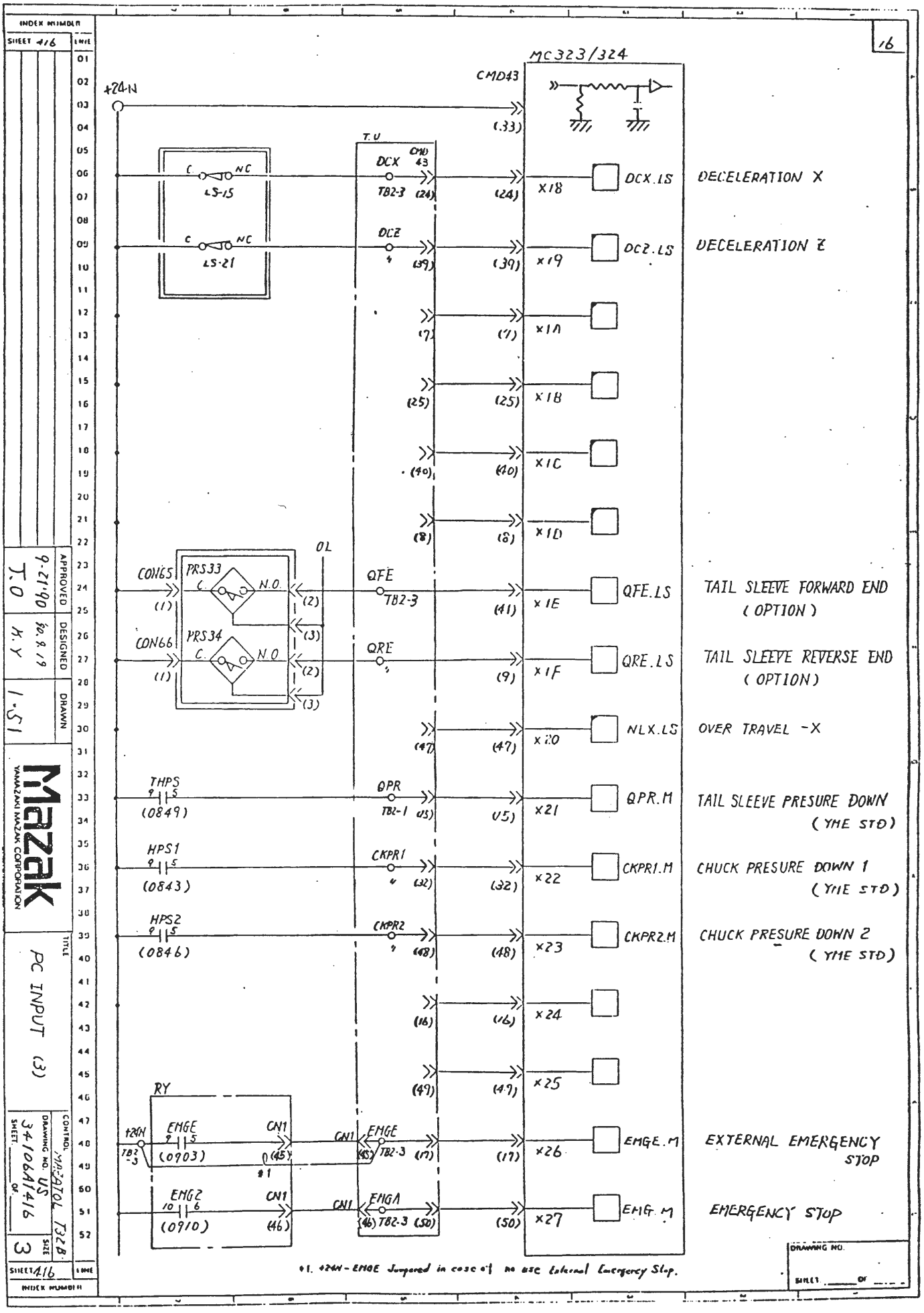
T.O	9-21-90	APPROVED	
K.Y	10.9.19	DESIGNED	
1.49		DRAWN	

MAZAK YAMAZAKI MAZAK CORPORATION

TITLE: PC INPUT (1)

CONTROL: MAZATROL 12B
DRAWING NO. US 34106 A1 414
SHEET 3 SIZE
SHEET 4/9

DRAWING NO
SHEET



INDEX NUMBER
SHEET 416

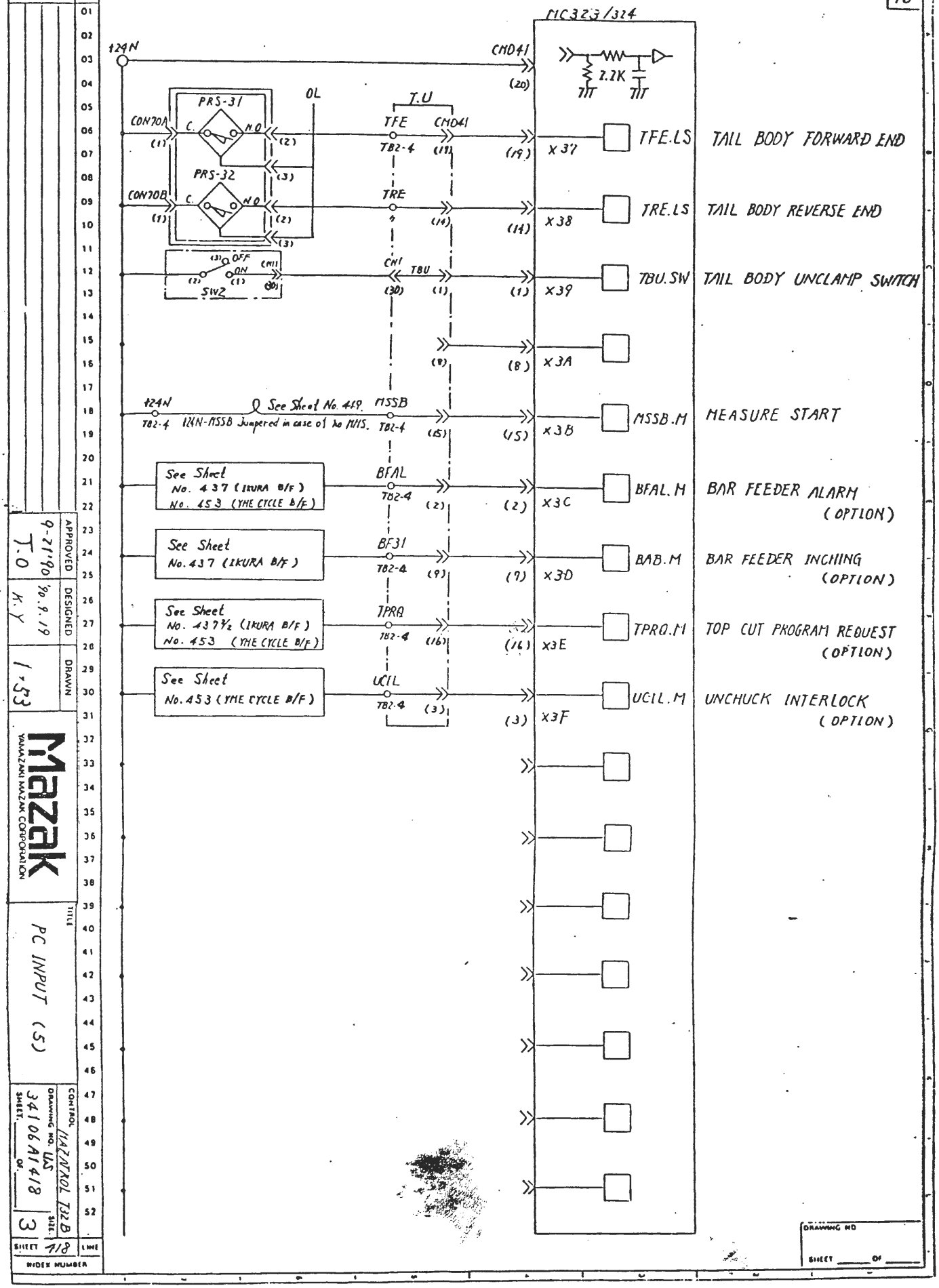
APPROVED	9-21-90	T.O
DESIGNED	90.8.19	K.Y
DRAWN	1-51	

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: PC INPUT (3)

CONTROL NO. MAZATOL T32B
DRAWING NO. US 3410641416
SHEET ____ OF ____
SIZE 3
SHEET 416

DRAWING NO.
SHEET ____ OF ____



INDEX NUMBER
SHEET 418
LINE

APPROVED 9-21-90 T.O
DESIGNED 9.9.19 K.Y
DRAWN 1.53

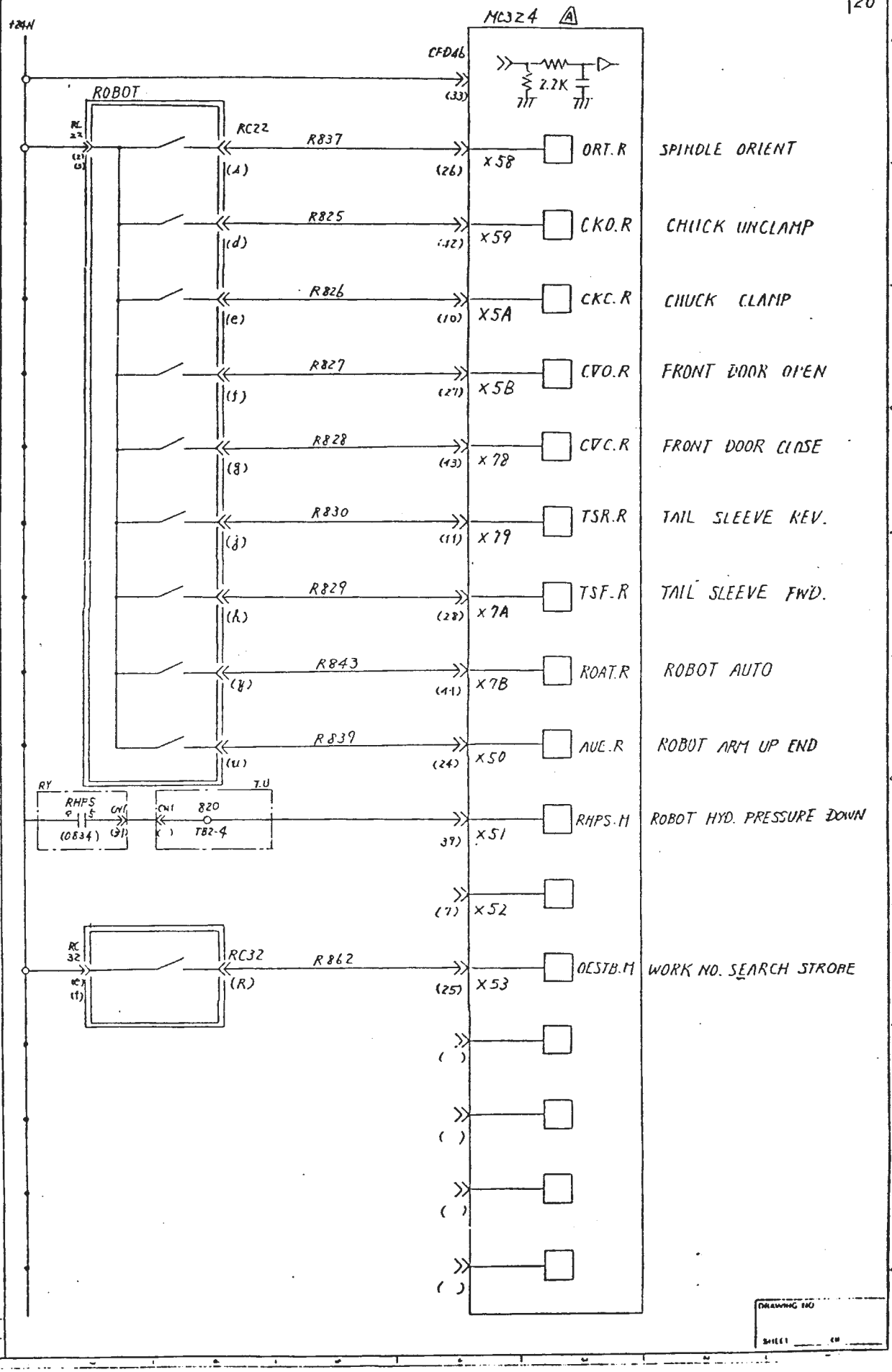
YAMAZAKI MAZAK CORPORATION

TITLE: PC INPUT (5)

CONTROL: MAZATROL T32B
DRAWING NO. US 3410 6A1418
SIZE: 3
SHEET ____ OF ____

SHEET 418
INDEX NUMBER

DRAWING NO
SHEET ____ OF ____



Changed MC324 I/O Address 91.2.13 K.Y

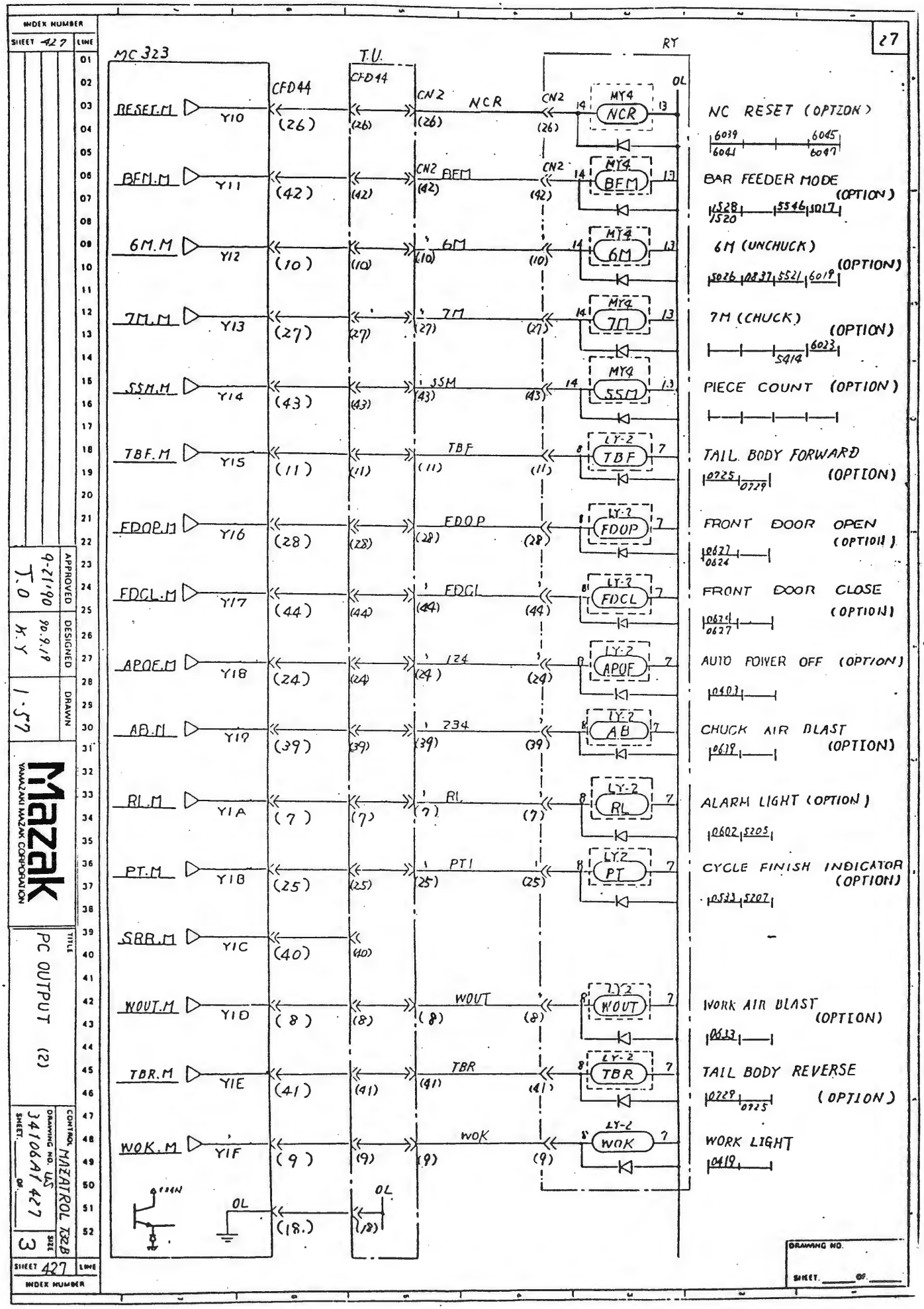
APPROVED	T.O	9-21-90
DESIGNED	K.Y	'90.9.19
DRAWN	1.55	

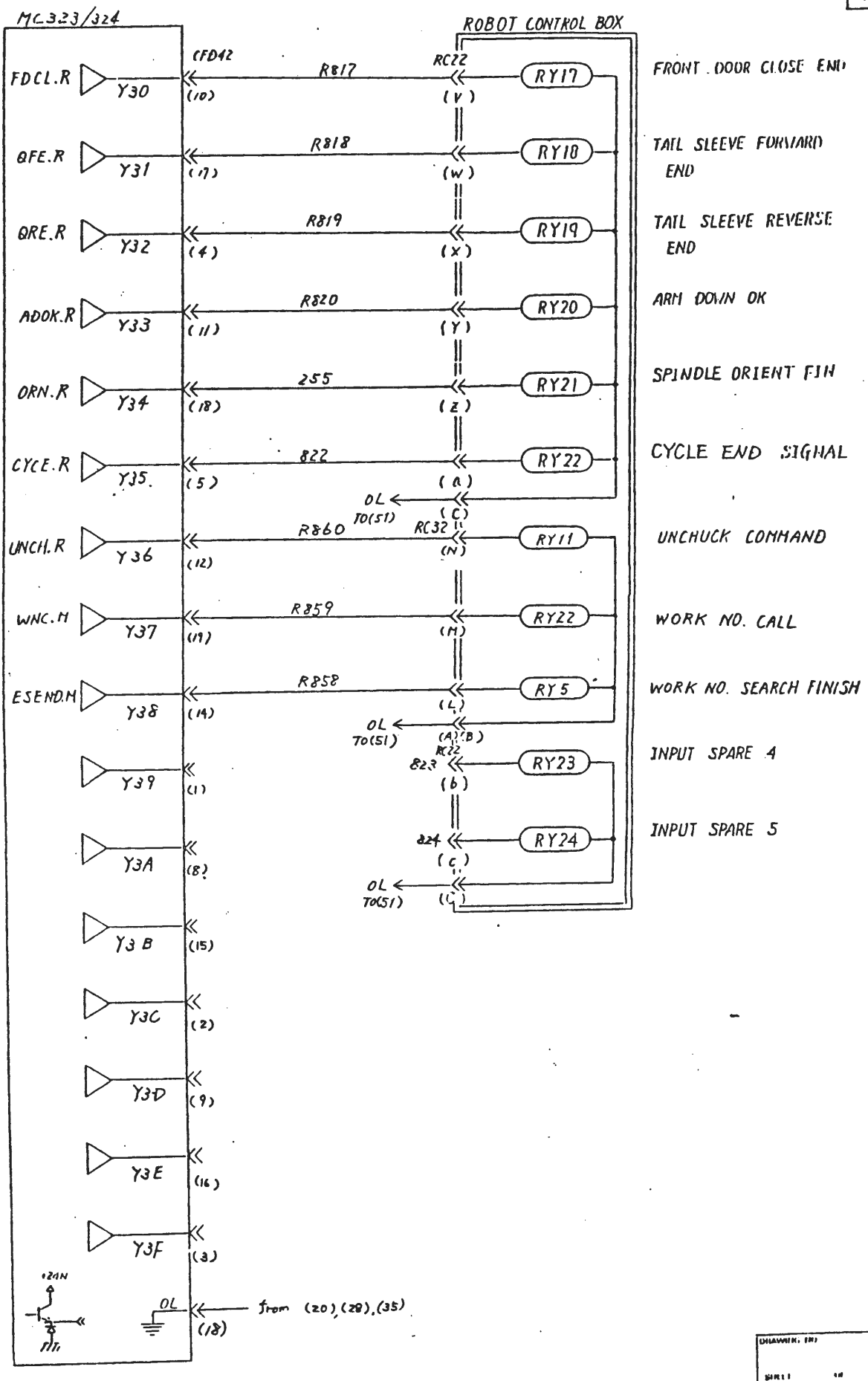
Mazak — YAMAZAKI MAZAK CORPORATION

TITLE: PC INPUT (7) (OPTION)

CONTROL: MAZATROL T32B
DRAWING NO: 3410641420A US
SIZE: B
SHEET 3 OF

SHEET 420


INDEX NUMBER
SHEET 427
LINE
MC 323
T.U.
RY
CFD44
CN2
NCR
BFM
6M
7M
SSM
TBF
FDOP
FDCL
APOF
AB
RL
PT
WOUT
TBR
WOK
RESET.M
BFM.M
6M.M
7M.M
SSM.M
TBF.M
FDOP.M
FDCL.M
APOF.M
AB.M
RL.M
PT.M
SRB.M
WOUT.M
TBR.M
WOK.M
Y10
Y11
Y12
Y13
Y14
Y15
Y16
Y17
Y18
Y19
Y1A
Y1B
Y1C
Y1D
Y1E
Y1F
MY4
LY-2
OL
NC RESET (OPTION)
BAR FEEDER MODE (OPTION)
6M (UNCHUCK) (OPTION)
7M (CHUCK) (OPTION)
PIECE COUNT (OPTION)
TAIL BODY FORWARD (OPTION)
FRONT DOOR OPEN (OPTION)
FRONT DOOR CLOSE (OPTION)
AUTO POWER OFF (OPTION)
CHUCK AIR BLAST (OPTION)
ALARM LIGHT (OPTION)
CYCLE FINISH INDICATOR (OPTION)
WORK AIR BLAST (OPTION)
TAIL BODY REVERSE (OPTION)
WORK LIGHT
APPROVED
DESIGNED
DRAWN
T.O
K.Y
1.57
9-21-90
90.8.19
Mazak
YAMAZAKI MAZAK CORPORATION
TITLE
PC OUTPUT (2)
CONTROL
MAZATROL T32B
DRAWING NO. US 3410641 427
SHEET 3 OF
SHEET 427
INDEX NUMBER
27
DRAWING NO.
SHEET OF



INDEX NUMBER
SHEET 429 LINE

APPROVED	9-21-90	T.O
DESIGNED	'90.9.19	K.Y
DRAWN	1.59	

MAZAK YAMAZAKI MAZAK CORPORATION

TITLE: PC OUT PUT (4) (OPTION)

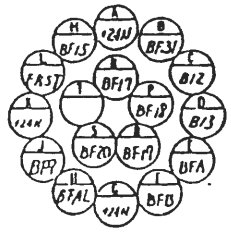
CONTROL: MAZATROL T32B
DRAWING NO. 3410641429
SHEET 3 OF
SIZE

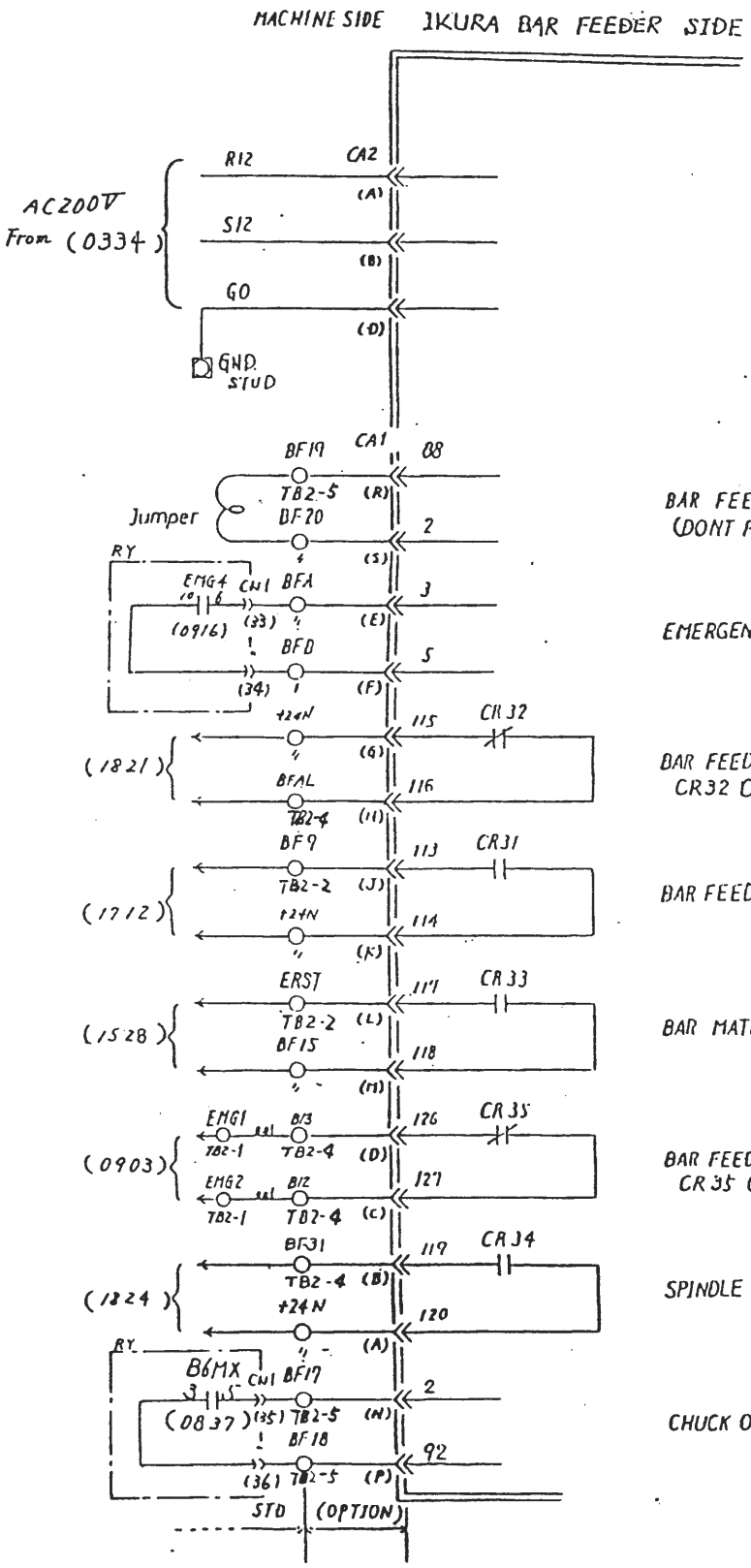
SHEET 429 LINE
INDEX NUMBER

○ Bar Feeder ⟷ Control Box
CA2
NS 3102A 18-10S
MS 3106B 18-10P

· R12 S12 KIV. 2^{SQ} (Black)
· G KIV 2^{SQ} (Yellow/Green)

○ Bar Feeder ⟷ Control Box
CA1
MS 3102A 20-29S
MS 3106B 20-29P





BAR FEED INHIBIT
(DONT FEED OUT OF CHUCK)

EMERGENCY STOP

BAR FEEDER ALARM
CR32 Contact Open at Fault.

BAR FEED FINISH (At Contact Close)

BAR MATERIAL FINISH (At Contact Close)

BAR FEEDER EMERGENCY STOP
CR35 Contact Open at Fault.

SPINDLE INCHING (At Contact Close)

CHUCK OPEN SIGNAL

※1. Jumpered in case of IKURA B/F except S Type.

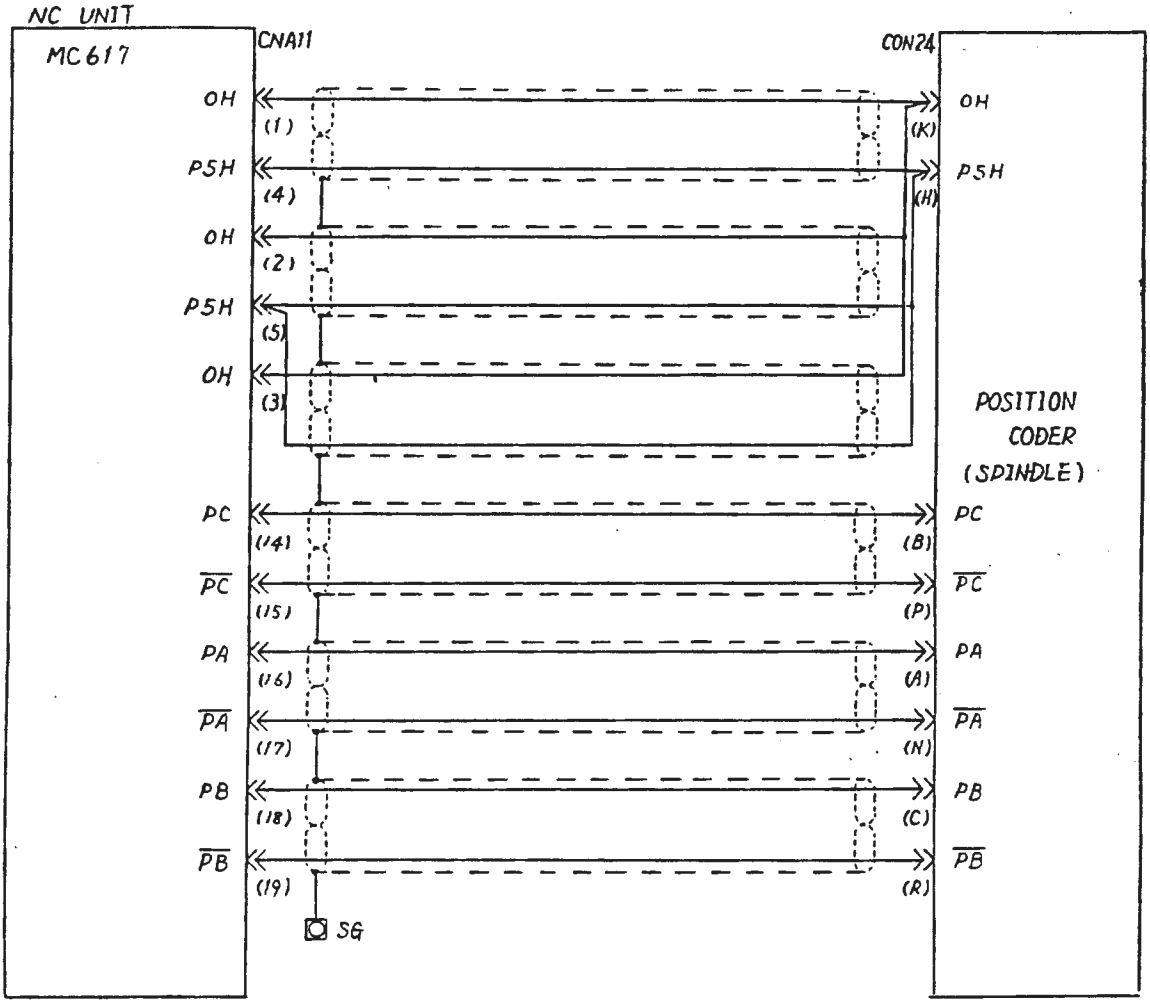
APPROVED	9-21'90	T.O
DESIGNED	90.9.19	K.Y
DRAWN	1-91	

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: IKURA BAR FEEDER I/F (OPTION)

CONTROL: MAZATROL T32B
DRAWING NO. US 3410641437½
SHEET 3 OF ____

SHEET 437½



INDEX NUMBER
SHEET 440 LINE

APPROVED	9-21'90	T.O
DESIGNED	'90.9.19	K.Y
DRAWN	1-63	

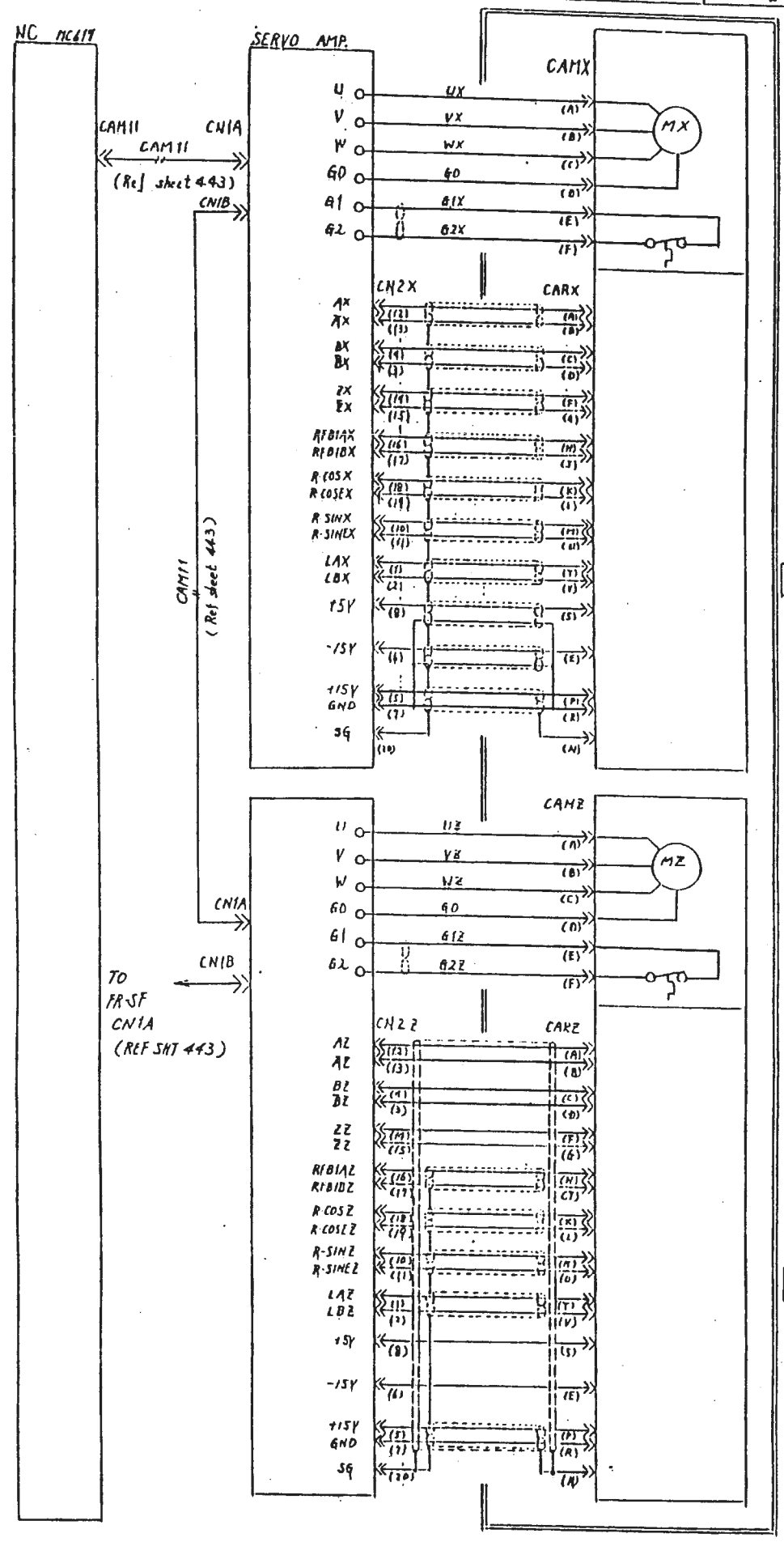
Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: POSITION CODER CONNECTION CIRCUIT

CONTROL
DRAWING NO: MAZATROL T32B J4106A1 440
SHEET ___ OF ___
SIZE: 3

SHEET 440 LINE
INDEX NUMBER

DRAWING NO
SHEET ___ OF ___



X AXIS SERVO MOTOR

TYPE : HA83 C-S

1 kw / 3000 rpm

Cont. 4.9A

max. 44 A

X AXIS

INCREMENTAL ENCODER

TYPE : OSE SKN-

6-8-108

MX L=10

Z AXIS SERVO MOTOR

TYPE : HA103-C

2.0 kw / 2500 rpm

Cont. 11 A

max. 98 A

Z AXIS

INCREMENTAL ENCODER

TYPE : OSE SKN-

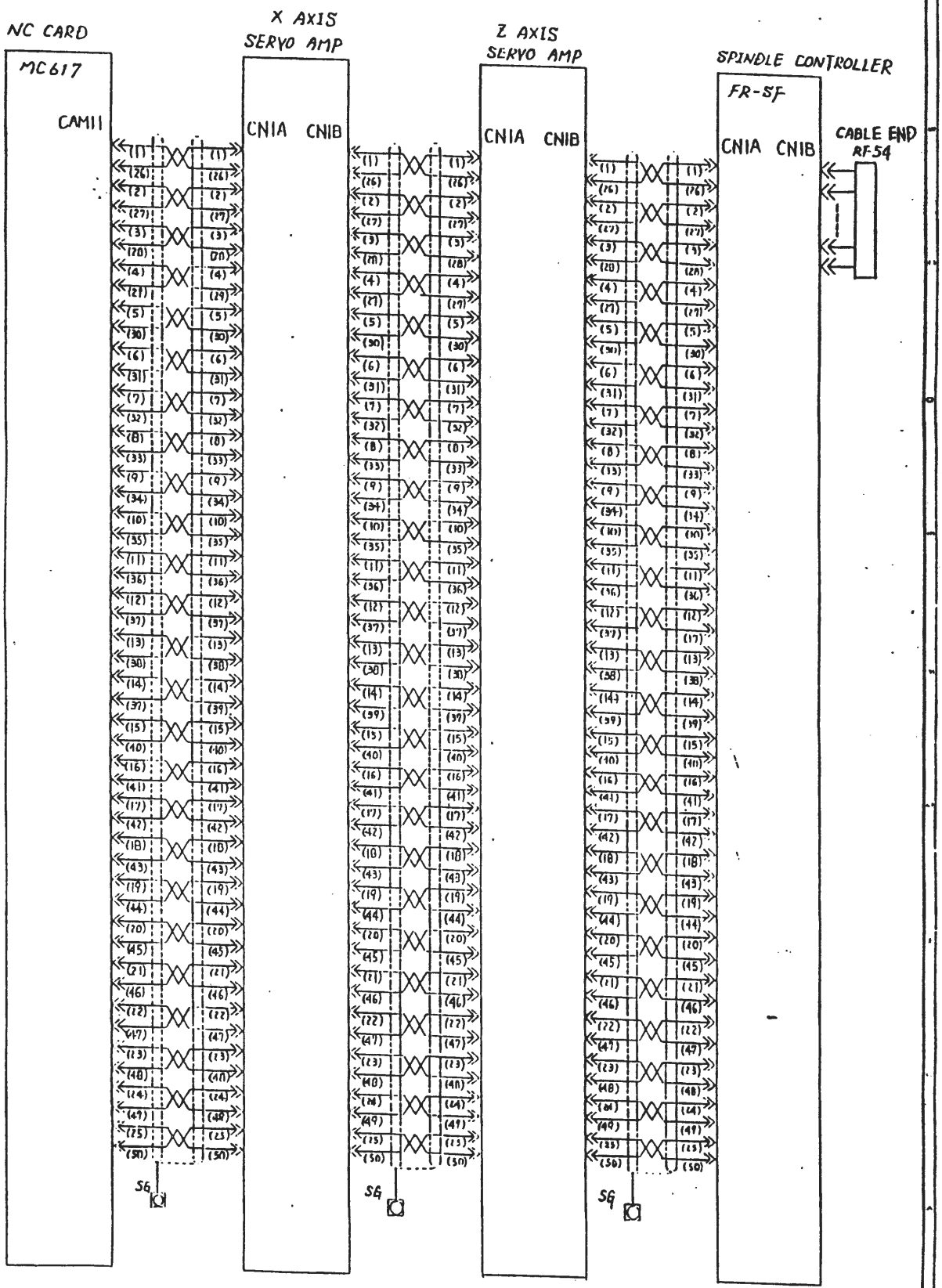
6-8-108

MZ L=12

INDEX NUMBER	
SHEET 442½	LINE
APPROVED	9-21-90 T.O
DESIGNED	90.9.19 K.Y
DRAWN	1.65
Mazak YAMAZAKI MAZAK CORPORATION	
TITLE	AXIS DETECTOR CIRCUIT
CONTROL DRAWING NO.	54106N442½
SHEET 1 OF 2	
SIZE	A3
SHEET 442½	LINE
INDEX NUMBER	

DRAWING NO

SHEET ____ OF ____



INDEX NUMBER
SHEET 443
LINE

APPROVED	9-21-90 T.O
DESIGNED	10.8.19 H.Y
DRAWN	1-67

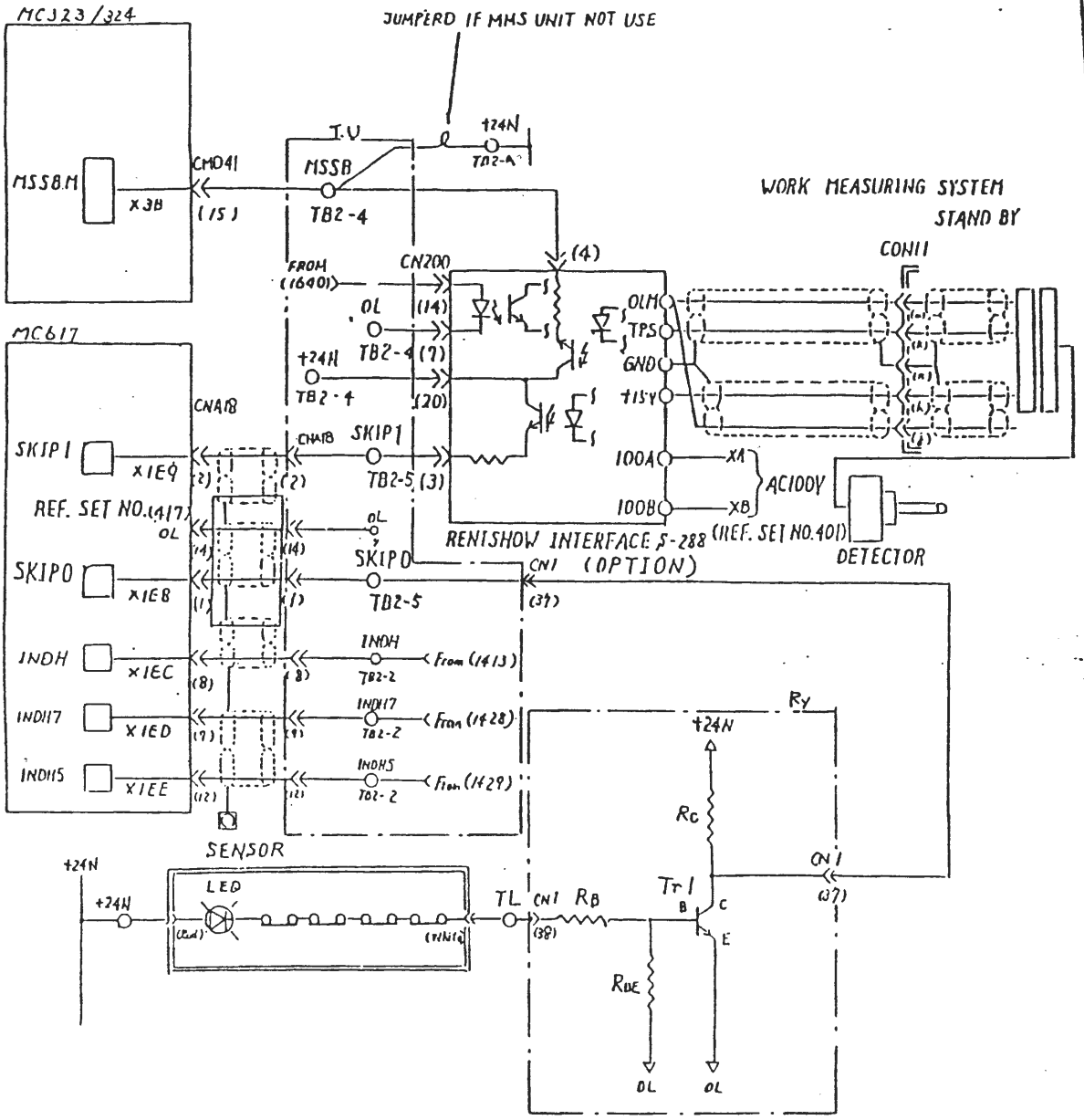
Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: NC BUS CABLE

CONTROL
DRAWING NO. MAZATROL T32 341061443
SHEET ____ OF ____
SIZE 3

SHEET 443
INDEX NUMBER

DRAWING NO
SHEET ____ OF ____



Tr1 : SK3866K (RCA)
Rc : 500Ω 3W
RB : 3.3KΩ 1/2 W
RBE : 1KΩ 1/4 W

APPROVED	9-21-90	T.O
DESIGNED	'90.8.19	K.Y
DRAWN	1-69	

Mazak
YAMAZAKI MAZAK CORPORATION

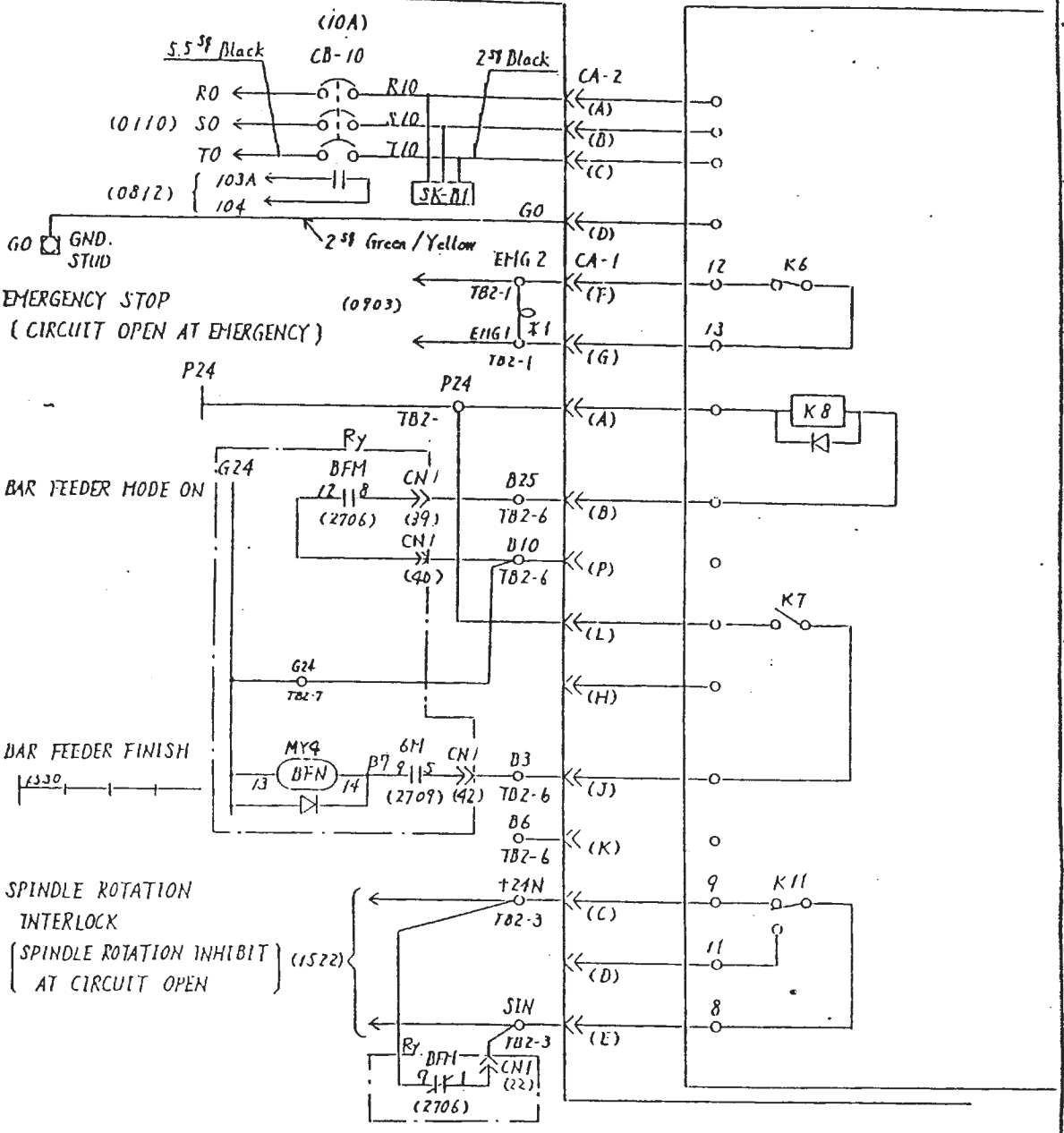
WORK MEASURE CIRCUIT & TOOL EYE CIRCUIT (OPTION)

MAZATROL T32B
3410641449
3
SHEET 449

MAZAK MACHINE CONTROL BOX

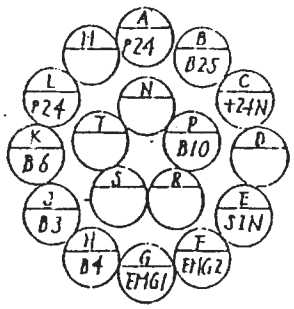
IRCO BAR FEEDER

450 1/3



CA-1 BAR FEEDER

MS 3102 A 20-29S
MS 3106 B 20-29P



CA-2 BAR FEEDER

MS 3102 A 18-10S
MS 3106 B 18-10P

* 1 Jumper in Case of Not Using Bar FEEDER

APPROVED	T.O	9-21-90
DESIGNED	K.Y	'90.8.19
DRAWN	I.	70

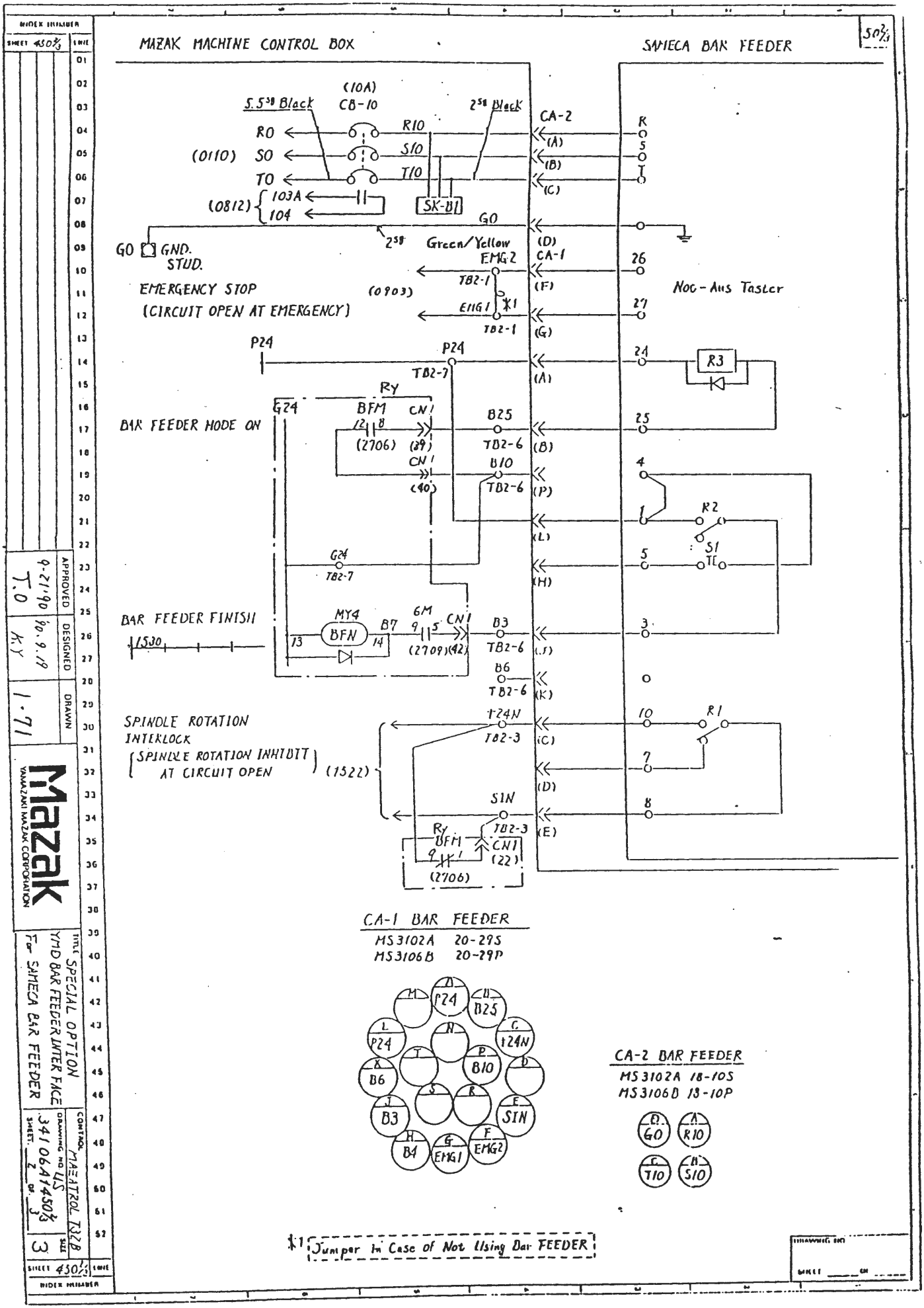
Mazak
YAMAZAKI MAZAK CORPORATION

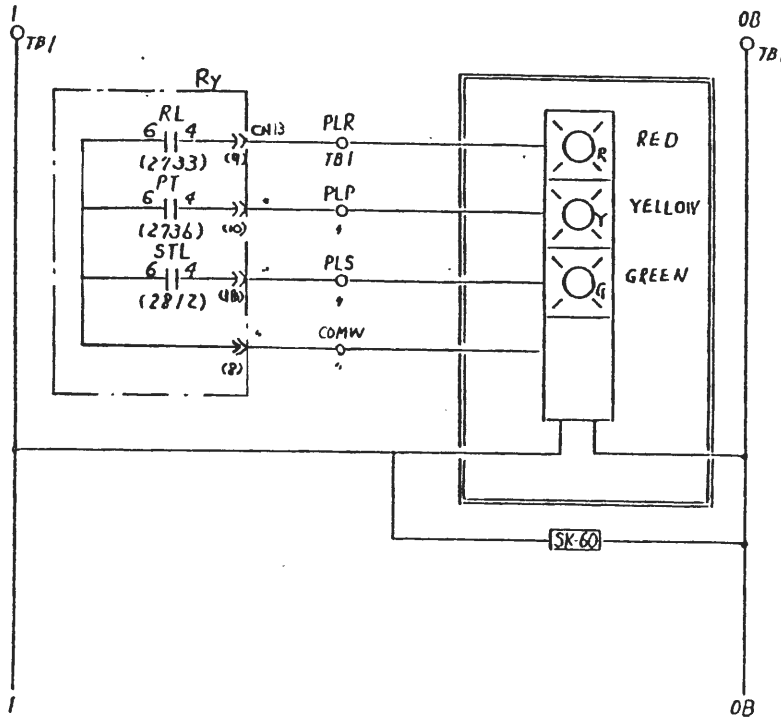
TITLE: SPECIAL OPTION YHD BAR FEEDER INTER FACE For IRCO BAR FEEDER

CONTROL: MAZATROL T32B
DRAWING NO. US 341064A 450 1/3
SHEET 1 OF 3
SIZE A3

SHEET 450 1/3 SHEET
INDEX NUMBER

DRAWING NO
SHEET OF


MAZAK MACHINE CONTROL BOX
SAMECA BAR FEEDER
(10A)
CB-10
5.5sq Black
2sq Black
R0
S0
T0
(0110)
R10
S10
T10
CA-2
(A)
(B)
(C)
(0812)
103A
104
SK-B1
G0
(D)
GND. STUD.
2sq Green/Yellow
EMG2
CA-1
TB2-1
(F)
26
Not-Aus Taster
EMERGENCY STOP
(CIRCUIT OPEN AT EMERGENCY)
(0903)
EMG1
X1
TB2-1
(G)
27
P24
TB2-7
(A)
24
R3
Ry
G24
BFM
CN1
12
8
(2706)
(29)
B25
TB2-6
(B)
25
BAR FEEDER MODE ON
CN1
(40)
B10
TB2-6
(P)
4
R2
(L)
S1
TE
5
G24
TB2-7
(H)
BAR FEEDER FINISH
(1530)
MY4
BFN
13
14
B7
6M
9
5
CN1
(2709)(42)
B3
TB2-6
(J)
3
B6
TB2-6
(K)
SPINDLE ROTATION INTERLOCK
(SPINDLE ROTATION INHIBIT AT CIRCUIT OPEN)
(1522)
124N
TB2-3
(C)
10
R1
7
(D)
S1N
8
(E)
Ry
BFM
9
1
(2706)
TB2-3
CN1
(22)
CA-1 BAR FEEDER
MS3102A 20-29S
MS3106B 20-29P
D P24
U B25
C 124N
P B10
D
S
R
E SIN
F EMG2
G EMG1
H B4
J B3
K B6
L P24
M
N
T
CA-2 BAR FEEDER
MS3102A 18-10S
MS3106B 18-10P
B G0
A R10
C T10
N S10
*1 Jumper In Case of Not Using Bar FEEDER
INDEX NUMBER
SHEET 450 1/3
LINE
APPROVED 9-21-90 T.O
DESIGNED 90.9.19 K.Y
DRAWN 1.71
Mazak
YAMAZAKI MAZAK CORPORATION
TITLE SPECIAL OPTION YMD BAR FEEDER INTER FACE For SAMECA BAR FEEDER
DRAWING NO. 3410641450 1/3
CONTROL MAZATROL T32B
SIZE 3
SHEET 2 OF 3
SHEET 450 1/3



THREE COLORS (OPTION)
TYPE — ATR100-3 (RED. YELLOW. GREEN)
M.F.G — ASAHI
0.18A/AC100V

TWO COLORS (OPTION)
TYPE — ATR100-2 (RED. YELLOW)
M.F.G — ASAHI
0.12A/AC100V

RED —— ALARM
YELLOW — CYCLE FINISH
GREEN — CYCLE START

INDEX NUMBER
SHEET 452
LINE

APPROVED 9-21-90 T.O
DESIGNED 90.9.19 K.Y
DRAWN 1.73

Mazak
YAMAZAKI MAZAK CORPORATION

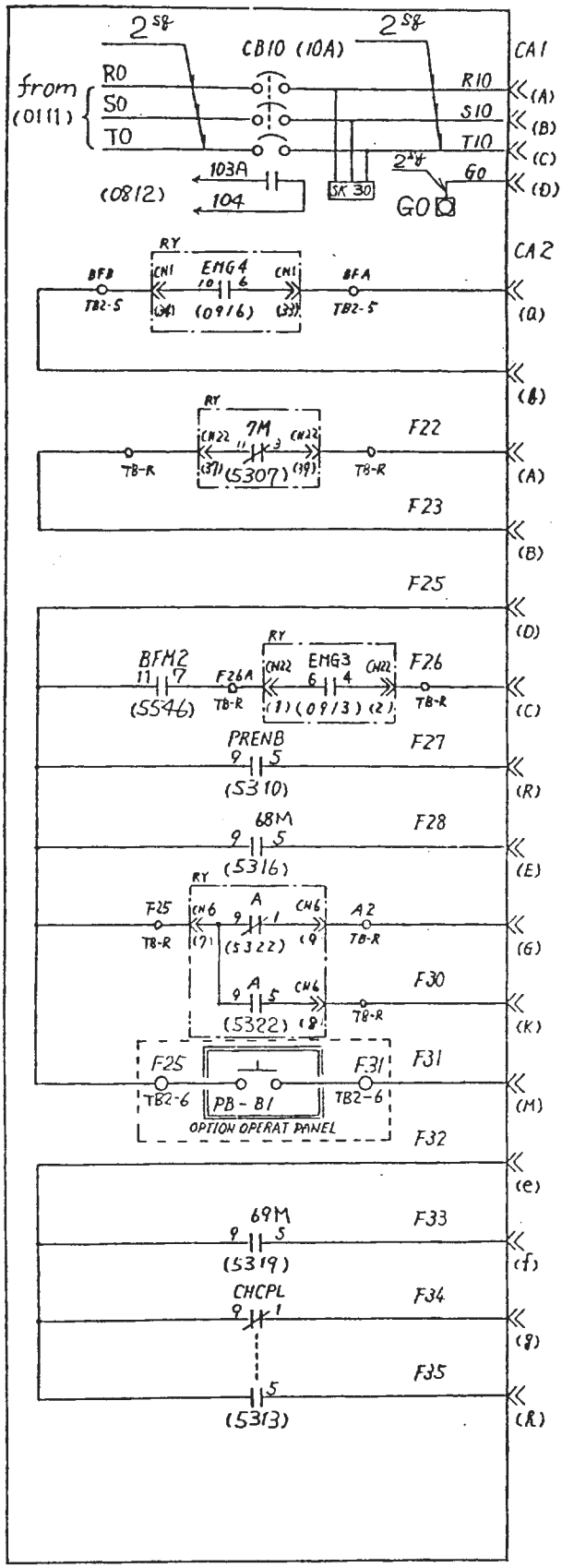
TITLE
OPTION CIRCUIT

CONTROL MAZATROL T32B
DRAWING NO. 4410641 452
SHEET 3 OF

SHEET 452
INDEX NUMBER

DRAWING NO
SHEET OF

5A



APPROVED	T.O	9.21.90
DESIGNED	K.Y	90.9.19
DRAWN	I.TS	

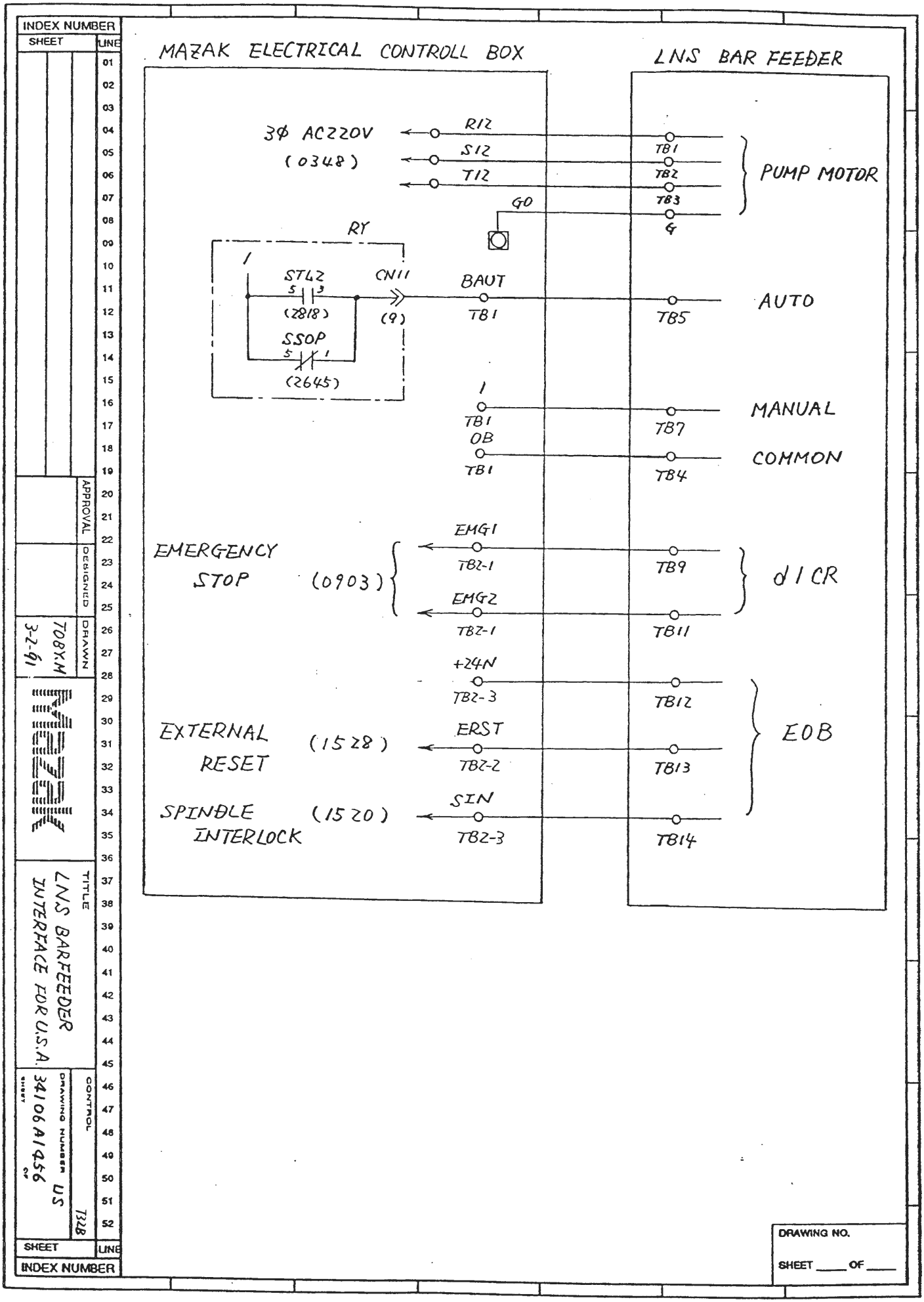
Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: Y.M.E. CYCLE BAR FEEDER I/F (1) (OPTION)

CONTROL: MAZATROL TJ2B
DRAWING NO. US 3410641454
SHEET ____ OF ____
SIZE 3

SHEET 454 LINE
INDEX NUMBER

DRAWING NO.
SHEET ____ OF ____


MAZAK ELECTRICAL CONTROLL BOX
LNS BAR FEEDER
3φ AC220V
(0348)
R12
S12
T12
G0
TB1
TB2
TB3
G
PUMP MOTOR
RY
1
ST42
5
3
(2818)
CN11
(9)
BAUT
TB1
TB5
AUTO
SSOP
5
1
(2645)
1
TB1
MANUAL
TB7
OB
TB1
COMMON
TB4
EMERGENCY
STOP
(0903)
EMG1
TB2-1
TB9
EMG2
TB2-1
TB11
dICR
+24N
TB2-3
TB12
EXTERNAL
RESET
(1528)
ERST
TB2-2
TB13
EOB
SPINDLE
INTERLOCK
(1520)
SIN
TB2-3
TB14
INDEX NUMBER
SHEET
LINE
APPROVAL
DESIGNED
DRAWN
TOBX.M
3-2-91
TITLE
LNS BARFEEDER
INTERFACE FOR U.S.A.
DRAWING NUMBER
US
34106A1456
CONTROL
7328
DRAWING NO.
SHEET ___ OF ___

ELEMENTARY DIAGRAM LIST

00

SHEET	TITLE
501	PARTS ARRANGEMENT ON CONTROL BOX
502	DETAIL PARTS ARRANGEMENT (RELAY PCB)
504	TERMINAL BLOCK ARRANGEMENT (1) TB1
505	DO (2) TB2
506	DO (3) TB-R
508	SIDE OPERATING PANEL
510	CONNECTOR TABLE (1)
511	DO (2)
512	DO (3)
514	DO (5)
515	CANNON CONNECTOR TABLE (1)
516	DO (2)
517	DO (3)
518	CABLE INLET DIAGRAM
519	CABLE SYSTEM DIAGRAM
520	CABLE SYSTEM DIAGRAM ON CONTROL BOX (1)
521	DO (2)
530	PARTS LAYOUT DIAGRAM (1)
531	DO (2)
532	DO (3)
533	DO (4)

INDEX NUMBER
SHEET LINE

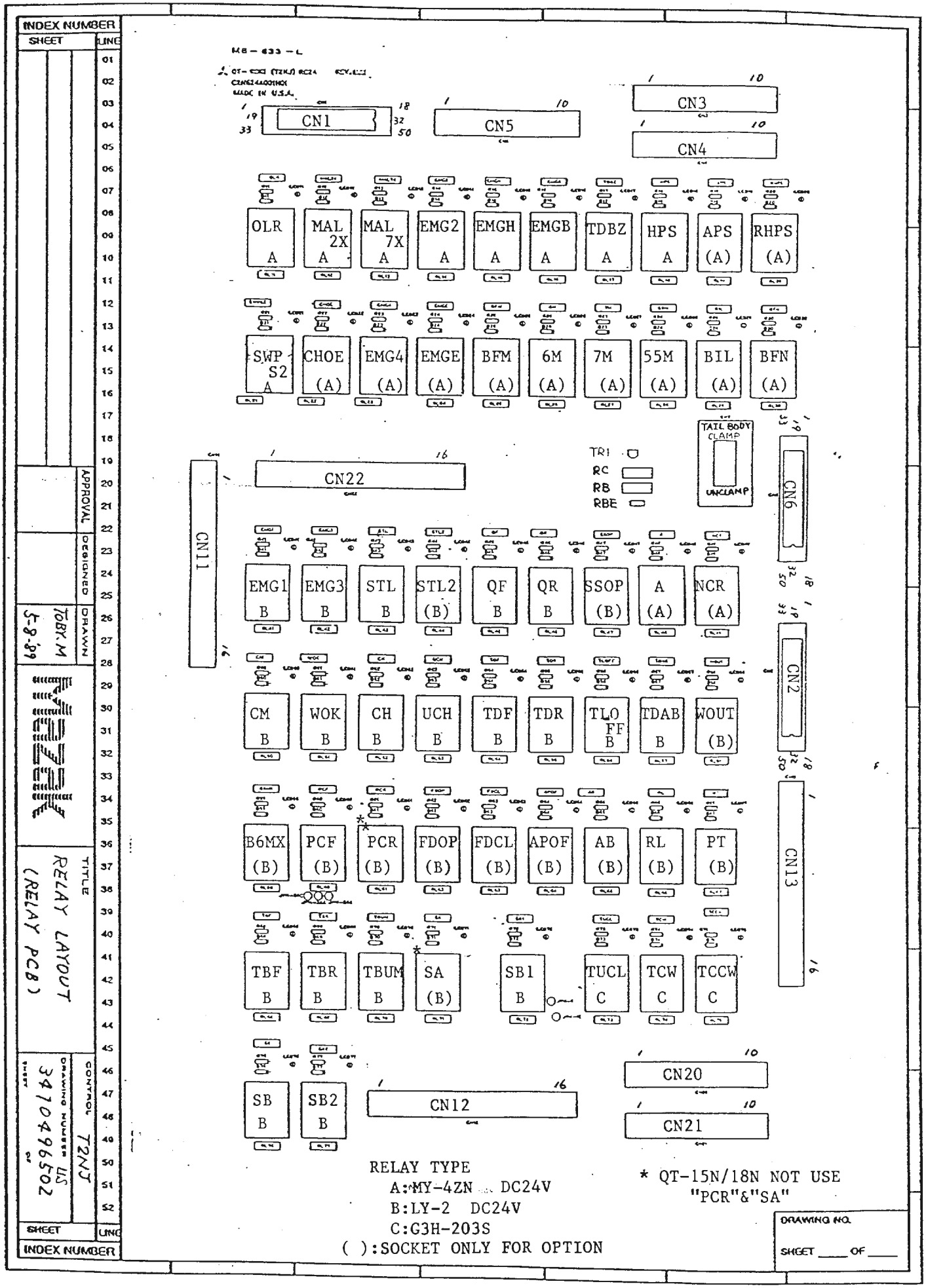
APPROVED 9-21-90 T.O
DESIGNED 90.8.19 K.Y
DRAWN 1-79

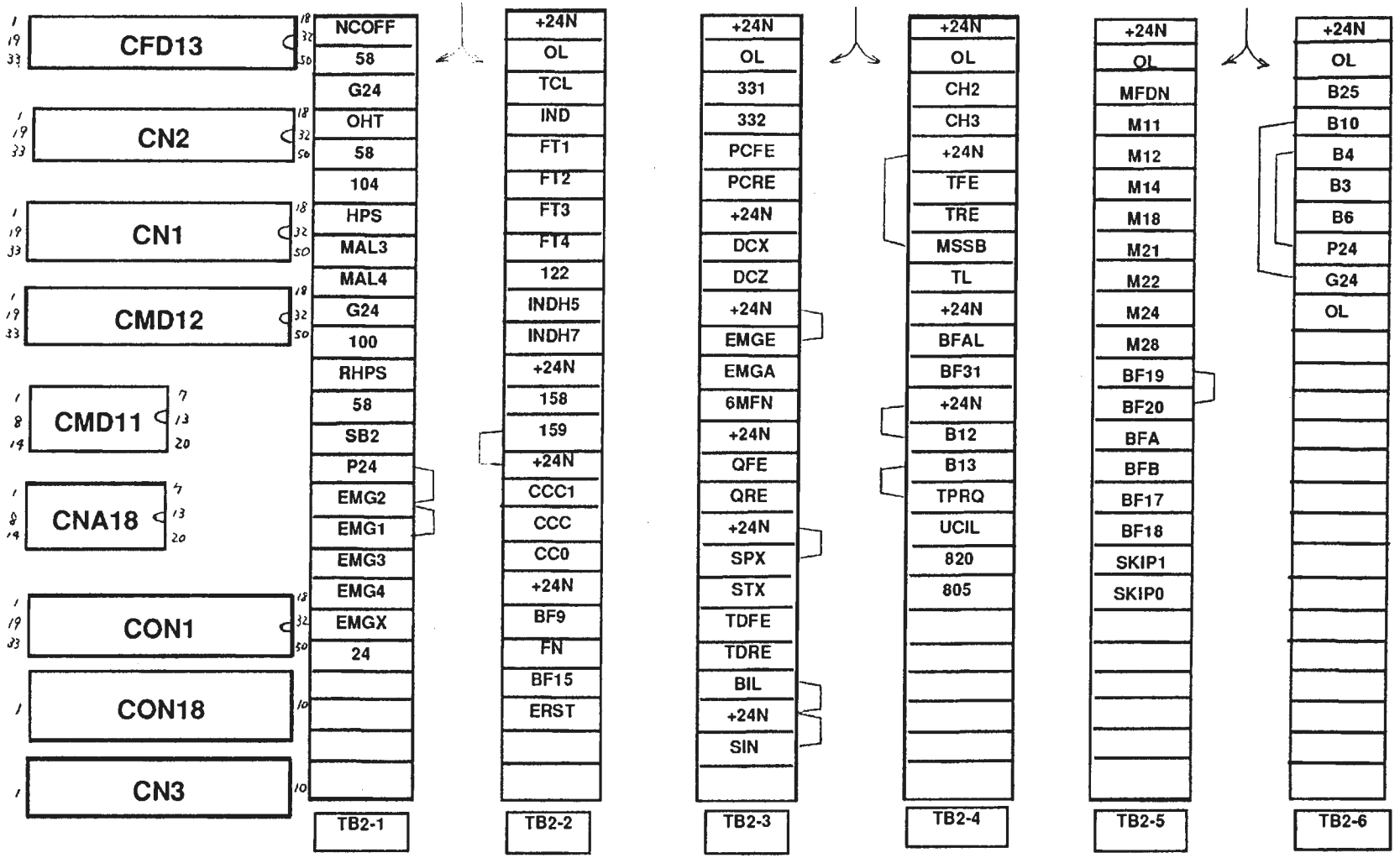
Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: ELEMENTARY DIAGRAM LIST

DRAWING NO. 341061500 US
SHEET ____ OF ____
CONTROL MAZATROL T32B
SIZE 3
SHEET 500 LINE
INDEX NUMBER

DRAWING NO.
SHEET ____ OF ____


INDEX NUMBER
SHEET
LINE
CN1
CN5
CN3
CN4
OLR A
MAL 2X A
MAL 7X A
EMG2 A
EMGH A
EMGB A
TDBZ A
HPS A
APS (A)
RHPS (A)
SWP S2 A
CHOE (A)
EMG4 (A)
EMGE (A)
BFM (A)
6M (A)
7M (A)
55M (A)
BIL (A)
BFN (A)
TAIL BODY CLAMP
UNCLAMP
CN6
CN22
CN11
TR1
RC
RB
RBE
EMG1 B
EMG3 B
STL B
STL2 (B)
QF B
QR B
SSOP (B)
A (A)
NCR (A)
CN2
CM B
WOK B
CH B
UCH B
TDF B
TDR B
TLO FF B
TDAB B
WOUT (B)
B6MX (B)
PCF (B)
PCR (B)
FDOP (B)
FDCL (B)
APOF (B)
AB (B)
RL (B)
PT (B)
CN13
TBF B
TBR B
TBUM B
SA (B)
SB1 B
TUCL C
TCW C
TCCW C
SB B
SB2 B
CN12
CN20
CN21
APPROVAL
DESIGNED
DRAWN
TOBY.M
5-8-89
TITLE
RELAY LAYOUT
(RELAY PCB)
CONTROL
T2NJ
DRAWING NUMBER
3410496502
SHEET
INDEX NUMBER
RELAY TYPE
A:MY-4ZN DC24V
B:LY-2 DC24V
C:G3H-203S
( ):SOCKET ONLY FOR OPTION
* QT-15N/18N NOT USE
"PCR"&"SA"
DRAWING NO.
SHEET ____ OF ____



DRAWING NO.

SHEET ___ OF ___

INDEX NUMBER | LINE | SHEET

APPROVAL: TOBY.M 5-10-89 | DESIGNED: | DRAWN: LOIS 5-10-89

Mazak

TITLE: TB2 LAYOUT (BT-BB2)

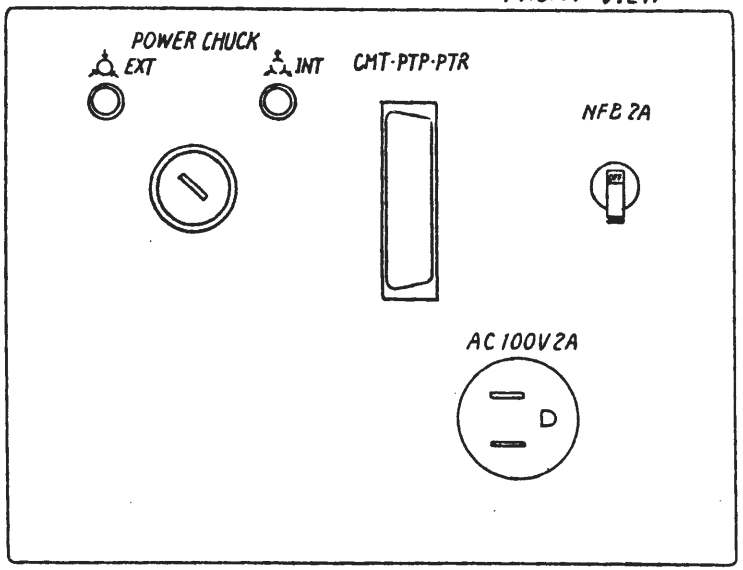
CONTROL: T2NJ

DRAWING NUMBER: US 3410496505

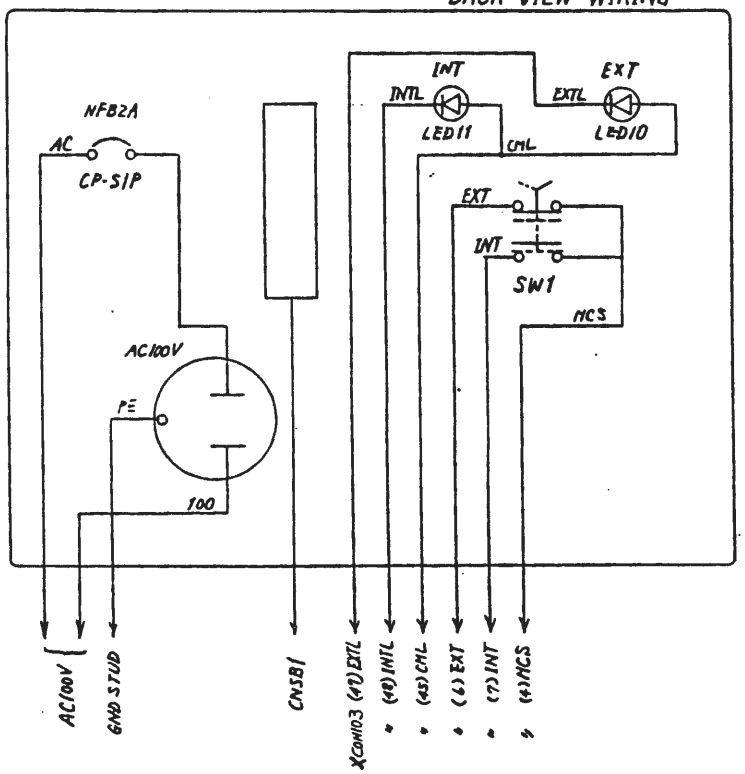
SHEET

08

FRONT VIEW



BACK VIEW WIRING



DRAWING NO. _____ SHEET _____ OF _____

INDEX NUMBER / SHEET 508 / LINE 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	APPROVED 9-21'90 T.O	DESIGNED '90.9.19 K.Y	DRAWN 1-84	Mazak YAMAZAKI MAZAK CORPORATION	TITLE SIDE OPERATING PANEL	CONTROL MAZATROL T32B DRAWING NO. 34106A1508 SHEET _____ OF _____	SIZE 3 / SHEET 508 / LINE / INDEX NUMBER

INDEX NUMBER
SHEET 511 LINE

CON1

(CONNECTOR – MRP-50P01 / CASE MR-50L / CONTACT MRP-F102)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
						SET1	SET2		OL								
X	19	20	21	22	23	24	25	26	27	28	29	30	31	32	X		
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
														ESP1	ESP2		

CON2

MR-20LFH

1	2	3	4	5	6	7
AGA	0115 2	0115 1			N15C	
8	9	10	11	12	13	X
COM					P15C	
14	15	16	17	18	19	20
PA	RA	PB	RB			SS

CN200 TOUCH AMP

(OPTION) MR-20LFH

1	2	3	4	5	6	7
		SKIP1	MSSB			OL
8	9	10	11	12	13	X
14	15	16	17	18	19	20
TDRE						+24N

PLG

1	PA
2	RA
3	PB
4	RB
5	AGA
6	N15G
7	
8	P15C
9	COM

4-8, 5-6, 1-2, 3-4 Twist pair shield

CN2X / CN33X (OPTION)

MRP-20LSN01

1	2	3	4	5	6	7
LAX	LBX	±BX	BX	+15V	-15V	GND
8	9	10	11	12	13	X
+5V		R -SINX	R -SINEX	AX	±AX	
14	15	16	17	18	19	20
ZX	YZX	RFB1AX	RFB1BX	R -COSX	R -COSEX	SG

CN2Z / CN33Z (OPTION)

MRP-20LSN01

1	2	3	4	5	6	7
LAZ	LBZ	±BZ	BZ	+15V	-15V	GND
8	9	10	11	12	13	X
+5V		R -SINZ	R -SINEZ	AZ	±AZ	
14	15	16	17	18	19	20
ZZ	YZZ	RFB1AZ	RFB1BZ	R -COSX	R -COSEX	SG

CON3M (Magne Scale OPTION)

MR-20LFH

1	2	3	4	5	6	7
SG	GND	GND				
8	9	10	11	12	13	X
14	15	16	17	18	19	20
PZ	P2R	PA	PAR	PB	PBR	

CN31M (Magne Scale OPTION)

MRP-20LSN01

1	2	3	4	5	6	7
GND		PBR	PB			
8	9	10	11	12	13	X
				PA	PAR	
14	15	16	17	18	19	20
P2	P2R					SG

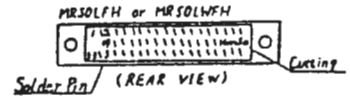
OPERATING BOARD XCON103

(CONNECTOR – MRP-50M01 / CASE – MR-50L / CONTACT – MRP-M102)

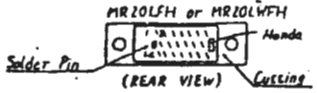
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
			MCS		EXT	INT											
X	19	20	21	22	23	24	25	26	27	28	29	30	31	32	X		
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
												CML		EXTL	INTL		

Connector Pin Detail Diagram

MR50LFH or MR50LWFH



MR20LFH or MR20LWFH



APPROVED	T.O	9-21-90
DESIGNED	K.Y	'90.9.19
DRAWN	I.B	1-86

MAZAK
YAMAZAKI MAZAK CORPORATION

TITLE: CONNECTOR TABLE (2)

CONTROL: MAZATROL T2B
DRAWING NO. 3410641511
SHEET ____ OF ____
SIZE 3

DRAWING NO
SHEET ____ OF ____

SHEET 511 LINE
INDEX NUMBER

14

TURRET UNCLAMP
CON12B

Pin No.	Line No.
1	6
2	0B

VENTILATING FAN
CON36

Pin No.	Line No.
1	7
2	0B
3	G0

HYD. PUMP FAN
CON37

Pin No.	Line No.
1	1
2	0B
3	G0

TAIL SLEEVE FORWARD END
CON65

Pin No.	Line No.
1	+24N
2	BFE
3	0L

TAIL SLEEVE REVERSE END
CON66

Pin No.	Line No.
1	+24N
2	BRE
3	0L

TAIL BODY FORWARD END
CON70A

Pin No.	Line No.
1	+24N
2	TFE
3	0L

WORK LIGHT
CON39

Pin No.	Line No.
1	2A
2	0B
3	G0

BALL SCREW COOLING SOL
CON40 (OP)

Pin No.	Line No.
1	121
2	0B

TOOL EYE AIR BLAST
CON45

Pin No.	Line No.
1	28
2	0B
3	G0

TAIL BODY REVERSE END
CON70B

Pin No.	Line No.
1	+24N
2	TRE
3	0L

Pin No.	Line No.
1	
2	
3	

Pin No.	Line No.
1	
2	
3	

AIR PRESSURE
CON22 (OP)

Pin No.	Line No.
1	58
2	MAL3

WORK MEASURE AIR BLAST
CON43 (OP)

Pin No.	Line No.
1	94
2	0B
3	G0

CHUCK AIR BLAST
CON44 (OP)

Pin No.	Line No.
1	25
2	0B
3	G0

HYD. TURRET MOTOR
CON12A

Pin No.	Line No.
1	5A
2	5C
3	5B
4	5C

AUTO DOOR
CON42 (OP)

Pin No.	Line No.
1	92
2	0B
3	91
4	0B

PARTS CATCHER
CON64 (OP)

Pin No.	Line No.
1	+24N
2	PCFE
3	+24N
4	PCRE

MAIN BREAKER
CON41

Pin No.	Line No.
1	3B
2	3C

POWER ON SW.
CON100

Pin No.	Line No.
1	PZ4
2	SB2

Pin No.	Line No.
1	
2	

	CONNECTOR		CONTACT	
	CAP	PLUG	SOCKET	PIN
2P	1-480699-0	1-480698-0	350550-6	350547-6
3P	1-480701-0	1-480700-0		
4P	1-480703-0	1-480702-0		

DRAWING NO. — SHEET — OF

INDEX NUMBER — LINE — SHEET 514

APPROVED	DESIGNED	DRAWN
9-21-90 T.O	90.9.19 K.Y	1-89

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: CONNECTOR TABLE (5) AMP

CONTROL: MAZATROL TJ2B

DRAWING NO. 34106A1514 SHEET ____ OF ____

SIZE 3

INDEX NUMBER SHEET 5/6 LINE

Control Box
Coolant Motor No.1
CON15
MS3102A 18-10S
MS3106B 18-10P

Pin No.	Line No.
A	U31
B	V31
C	W31
D	G0

Control Box
Coolant Motor No.2
CON16
MS3102A 18-10S
MS3106B 18-10P

Pin No.	Line No.
A	U91
B	V91
C	W91
D	G0

Control Box
Foot Switch
CON18
MS3102A 14S-6S
MS3106B 14S-6P

Pin No.	Line No.
A	BIL
B	FTS
C	221
D	222
E	
F	G0

Control Box
Slideway Motor & PSW
CON19
MS3108B 18-10S

Pin No.	Line No.
A	7
B	0B
C	MAL4
D	G24

Control Box
FLEX-IN Control Box
RC 22
MS3102A 32-41S

Pin NO.	Machine Side	Flex Side	Pin NO.	Machine Side	Flex Side	Pin NO.	Machine Side	Flex Side
A	0L	COM1	U	R816	R816	n	R834	R834
B	0L	COM2	V	R817	R817	p	R835	R835
C	0L	COM3	W	R818	R818	r	R836	R836
D	801	R801	X	R819	R819	s	R837	R837
E	252	R802	Y	R820	R820	t	R838	R838
F	+24N	R803	Z	255	R821	u	R839	R839
G	804	R804	a	822	R822	v	R840	R840
H	805	R805	b	823	R823	w	R841	R841
J	106	R806	c	824	R824	x	R842	R842
K	+24N	R807	d	R825	R825	y	R843	R843
L	808	R808	e	R826	R826	z	R839	R844
M	R809	R809	f	R827	R827	2	+24N	COM6
N	R810	R810	g	R828	R828	3	+24N	COM7
P	R811	R811	h	R829	R829	4	+24N	COM8
Q	R812	R812	j	R830	R830	5		
R	R813	R813	k	R831	R831	6		E
S	250	R814	l	R832	R832			
T	251	R815	m	R833	R833			

Control Box
FLEX-IN Control Box
RC 32
MS3102A 28-21P

Pin NO.	Machine Side	Flex Side	Pin NO.	Machine Side	Flex Side
A	0L	COM4	W	R867	R867
B	0L	COM5	X	R868	R868
C	R850	R850	Z	R869	R869
D	R851	R851	a	R870	R870
E	R852	R852	b	R871	R871
F	R853	R853	c	R872	R872
G	R854	R854	d	R873	R873
H	R855	R855	e	+24N	COM9
J	R856	R856	f	+24N	COM10
K	R857	R857	g		
L	R858	R858	h		
M	R859	R859	j		
N	R860	R860	k		
P	R861	R861	m		
R	R862	R862	n		
S	R863	R863	p		
T	R864	R864	r		
U	R865	R865	s		E
V	R866	R866			

Mazak
YAMAZAKI MAZAK CORPORATION

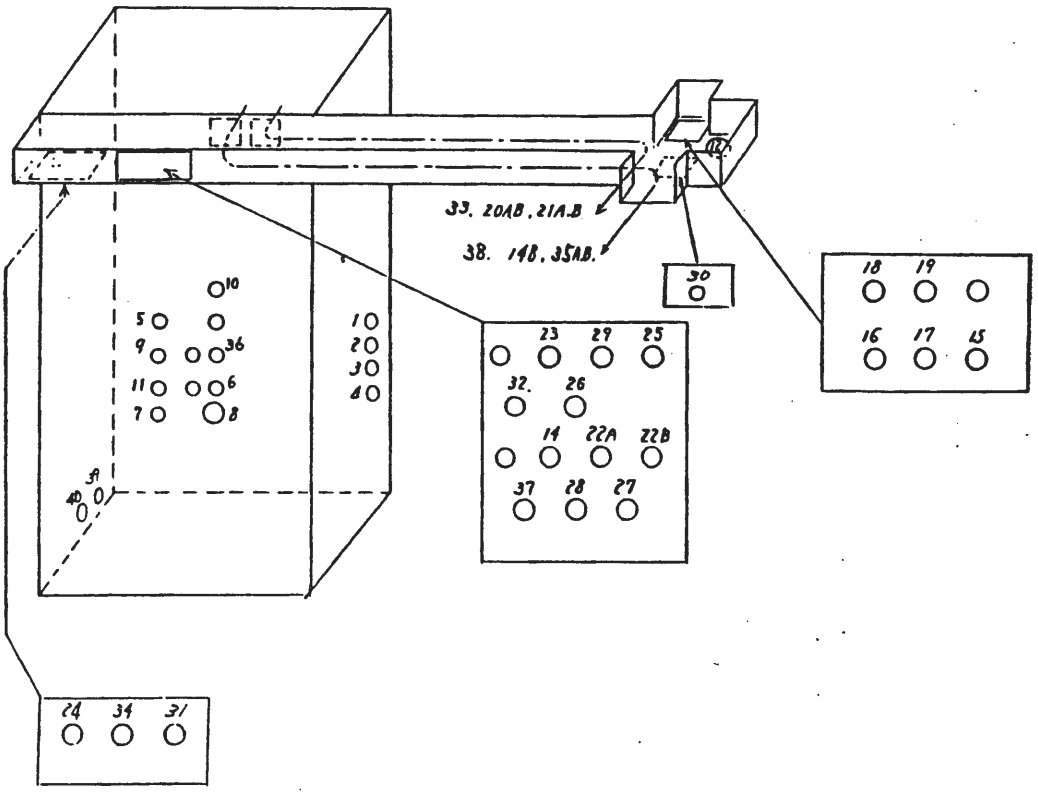
TITLE: CANNON CONNECTOR TABLE (2)

APPROVED T.O 9-21-90
DESIGNED K.Y 10.9.19
DRAWN 1-91

CONTROL MAZATROL T32D
DRAWING NO. J4106A1516
SHEET 3 OF ____
SIZE

SHEET 5/6 LINE
INDEX NUMBER

DRAWING NO
SHEET ____ OF ____



39. FLEX Y/F
40. DO.

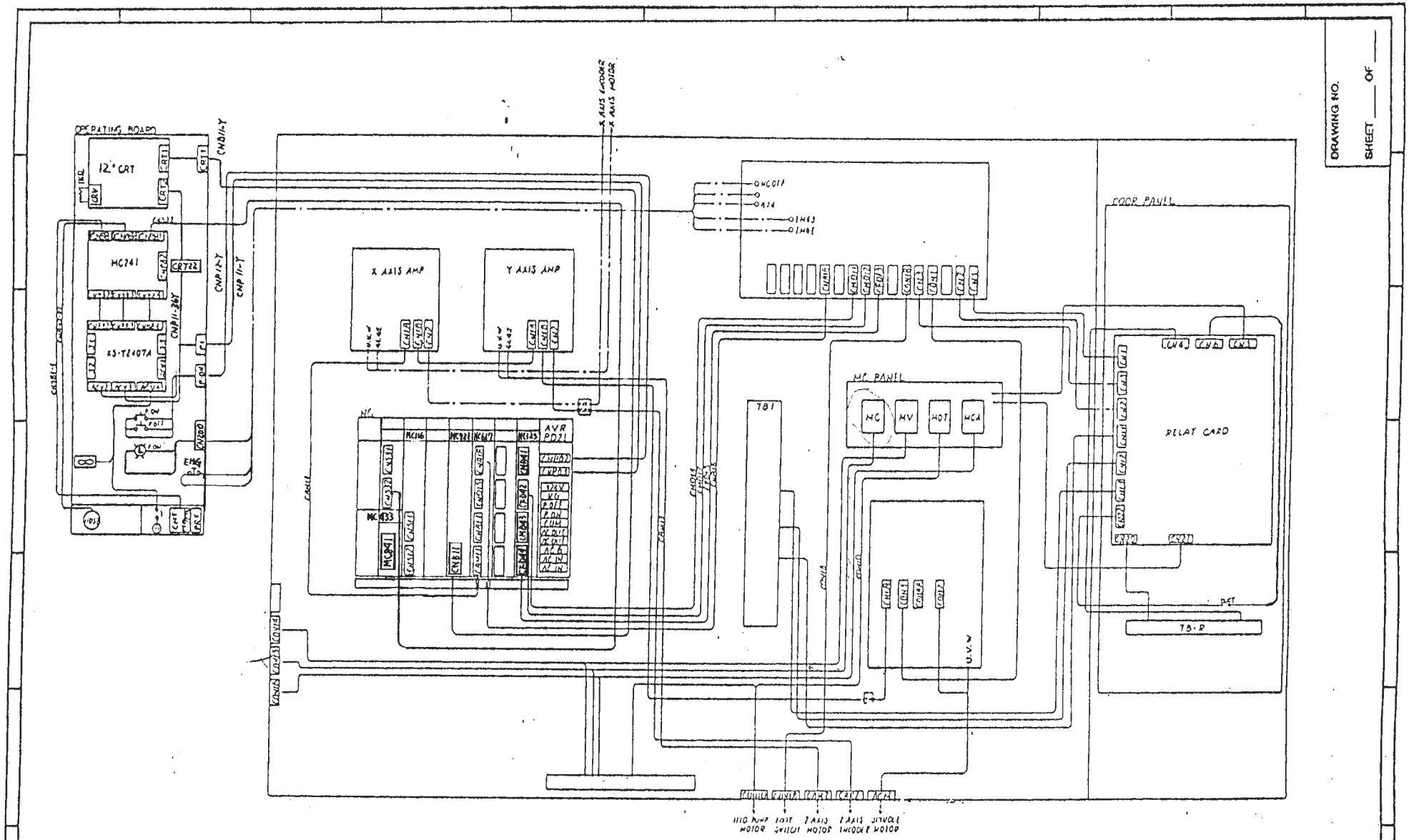
*1). 1. AIR KIT (OPTION)
2. CHIP CONVEYOR (OPTION)
3. COOLANT PUMP MOTOR No 1
4. COOLANT PUMP MOTOR No 2
5. BAR FEEDER (OPTION)
6. HYDRAULIC PUMP MOTOR
7. Z-AXIS SERVO MOTOR
8. SPINDLE MOTOR
9. CHUCK FOOT SWITCH
10. BAR FEEDER (OPTION)
11. Z-AXIS DETECTOR
12. TRANSFORMER
14A. TAIL SLEEVE FOR./REV SOL
14B. TAIL BODY UNCLAMP SOL
15. X/Z AXIS HOME POSITION LS.
16. X-AXIS SERVO MOTOR
17. X-AXIS DETECTOR
18. TURRET MOTOR
19. TURRET PRS.

*1) AUTO DOOR (OP), CHUCK AIR BLAST (OP)
WORK AIR BLAST (OP).

37. CHUCK HYD. PRESSURE SWITCH (YME STD)
38. TAIL SLEEVE HYD. PRESSURE SWITCH (YME STD)
20A DOOR OPEN LS.
20B DOOR CLOSE LS.
21A.B AUTO DOOR OPEN. CLOSE LS. (OPTION)
22A CHUCK OPEN SOL.
22B CHUCK CLOSE SOL.
23. CHUCK SENSOR (YME STD)
24. SLIDE WAY LUBE MOTOR
25. SPINDLE POSITION CODER
26. TOOL SETTER FOR. PRS. (OPTION)
TOOL SETTER REV. PRS. (do)
27. TOOL SETTER MOTOR (do)
28. PARTS CATCHER SOL. (do)
29. PARTS CATCHER FOR. LS. (do)
PARTS CATCHER REV. LS. (do)
30. TAIL SLEEVE FOR/REV. PRS (do)
TAIL BODY FOR/REV PRS (do)
*2) 31. AIR KIT
32. HYD. PRESSURE SWITCH
33. WORK LIGHT
34. FAN MOTOR
35A. TAIL BODY FWD. SOL
35B TAIL BODY REV. SOL
36. HYDRAULIC PUMP FAN

*2) BALL SCREW COOLING, TOOL EYE AIR BLAST

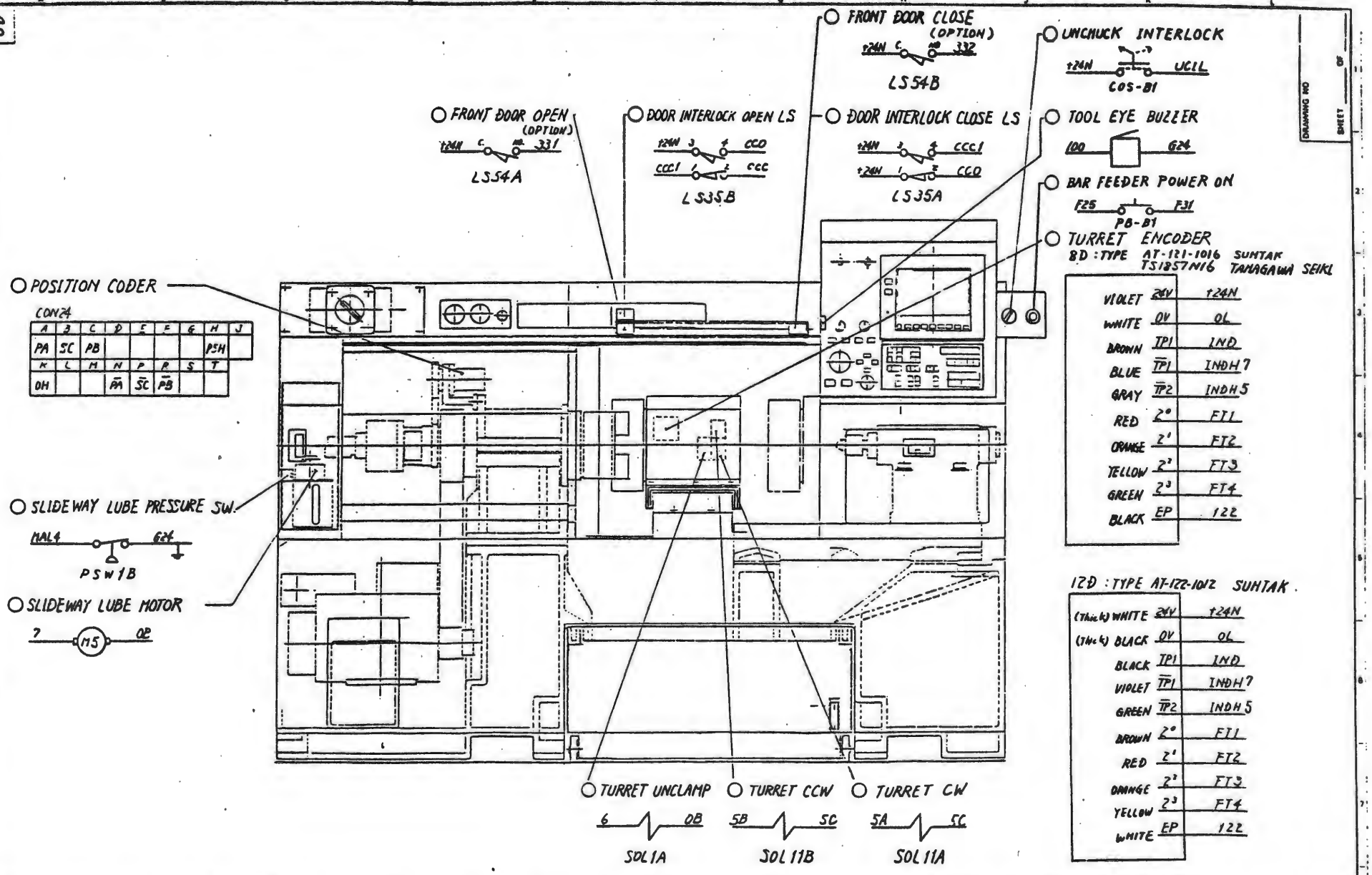
INDEX NUMBER
SHEET 518 LINE
APPROVED 9-21-90 T.O
DESIGNED 90.9.19 Y.Y
DRAWN 1.93
Mazak YAMAZAKI MAZAK CORPORATION
TITLE CABLE INLET DIAGRAM
CONTROL MAZATROL T32B
DRAWING NO 3410641518
SHEET 3 OF
SIZE
SHEET 518 LINE
INDEX NUMBER
DRAWING NO
SHEET OF



DRAWING NO.

SHEET ____ OF ____

INDEX NUMBER / SHEET		APPROVAL	DESIGNED	DRAWN		TITLE	CONTROL 732B
				TOBY.M 4-15-91	MEIKI	CABLE SYSTEM DIAGRAM IN CONTROL BOX (1)	DRAWING NUMBER 34106A1520 SHEET OF

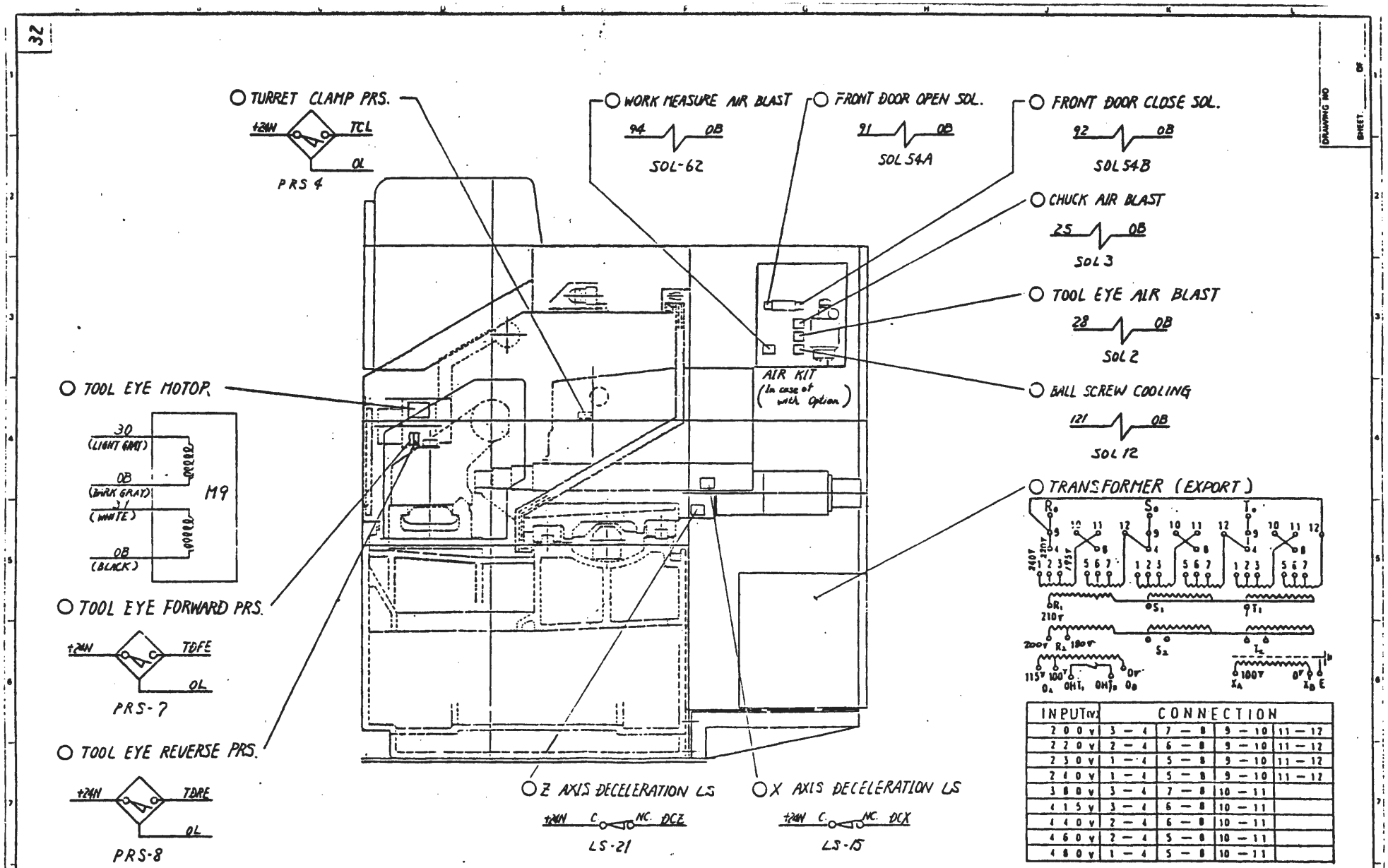


APPROVED	DESIGNED	DRAWN
9-21-90 T.O	'90.9.19 K.Y	1-97

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE: PARTS LAYOUT DIAGRAM (1)

CONTROL: MAZATROL T32B
DRAWING NO.: 34106AT530
SIZE: 3
SHEET ____ OF ____



INPUT(v)	CONNECTION			
200v	3 — 4	7 — 8	9 — 10	11 — 12
220v	2 — 4	6 — 8	9 — 10	11 — 12
230v	1 — 4	5 — 8	9 — 10	11 — 12
240v	1 — 4	5 — 8	9 — 10	11 — 12
380v	3 — 4	7 — 8	10 — 11	
415v	3 — 4	6 — 8	10 — 11	
440v	2 — 4	6 — 8	10 — 11	
460v	2 — 4	5 — 8	10 — 11	
480v	1 — 4	5 — 8	10 — 11	

INDEX NUMBER SHEET 532 LINE 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 LINE SHEET 532 INDEX NUMBER

APPROVED	DESIGNED	DRAWN
9-21-90 T.O	90.9.19 K.Y	1-99

Mazak YAMAZAKI MAZAK CORPORATION

TITLE: PARTS LAYOUT DIAGRAM (3)

CONTROL: MAZATROL T32B

DRAWING NO.: 34106A1532 SHEET ____ OF ____

SIZE: 3

DRAWING NO ____ SHEET ____ OF ____

INDEX NUMBER
SHEET 700 LINE

△ Changed '91.1.19 K.Y

'91.1.22 A.G APPROVED
'91.1.19 K.Y DESIGNED
DRAWN

Mazak
YAMAZAKI MAZAK CORPORATION

TITLE ELEMENTARY DIAGRAM LIST

CONTROL HAZATROL T32B
DRAWING NO. J4106A1700A
SHEET ____ OF ____
SIZE 3

SHEET 700 LINE
INDEX NUMBER

00

ELEMENTARY ĐIAGRAM LIST

SHEET	TITLE
701	NC OPERATING PANEL PARTS LIST
702	NC OPERATING PANEL (MECHANICAL SWITCH)
703	ĐO (SHEET SW)
△ 704	ĐO (YZ203B-3)
705	
706	
707	
708	
709	
710	
711	
712	
713	
714	
715	
716	
717	
718	
719	
720	
721	
722	
723	
724	
725	
726	
727	
728	
729	
730	
731	
732	
733	
734	
735	
736	
737	
738	

DRAWING NO.
SHEET. ____ OF ____

INDEX NUMBER
SHEET 702 LINE

A Changed Operating panel '91.1.17 K.Y

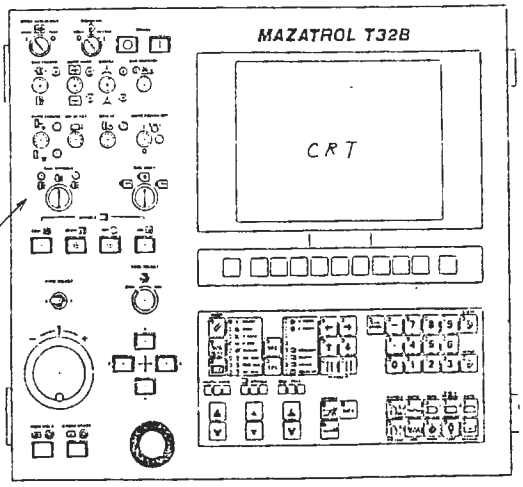
	APPROVED	DESIGNED	DRAWN
	'91.1.22 A.G	'91.1.17 K.Y	

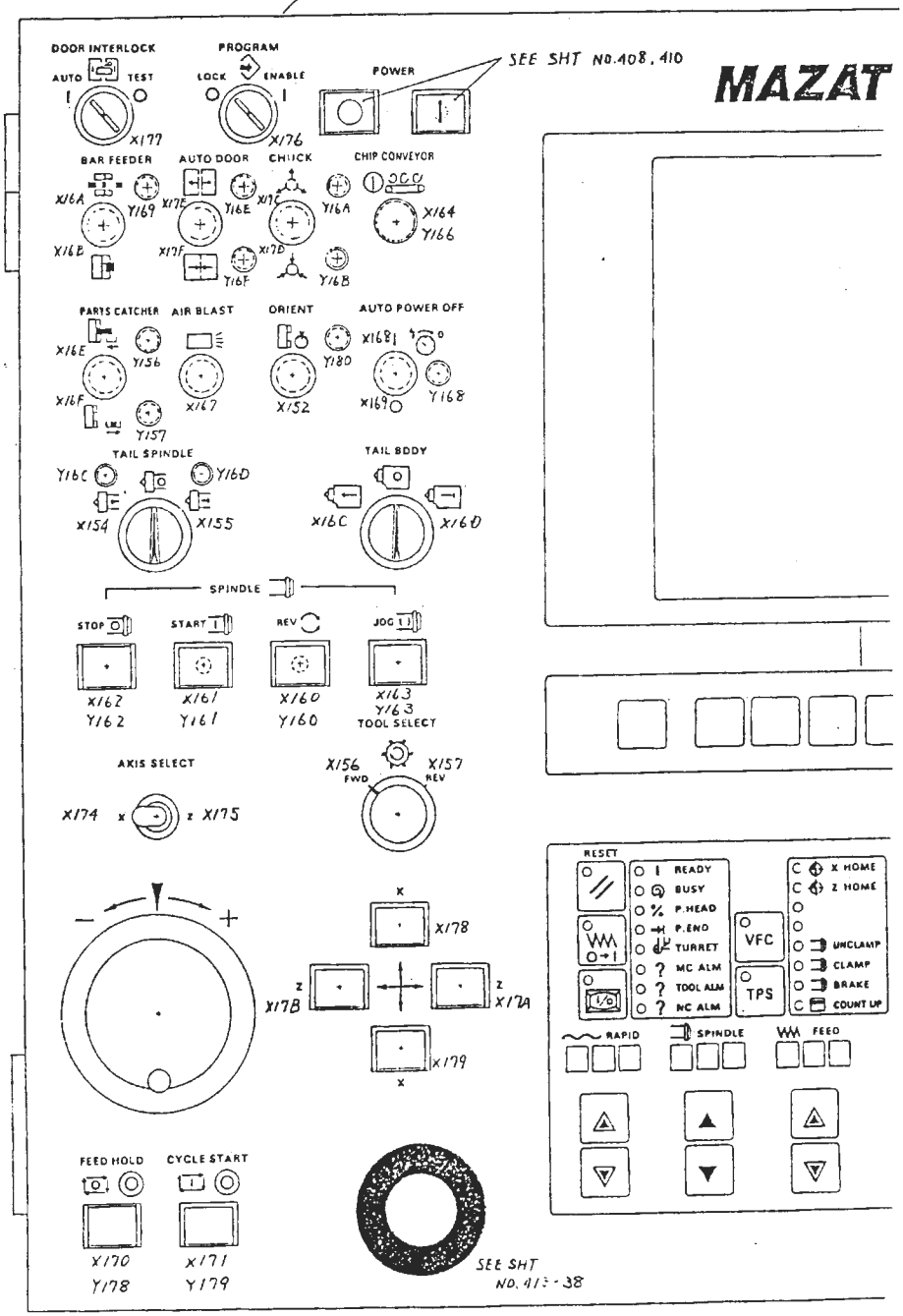
Mazak
YAMAZAKI MAZAK CORPORATION

TITLE
NC OPERATING PANEL
(MECHANICAL SWITCH)

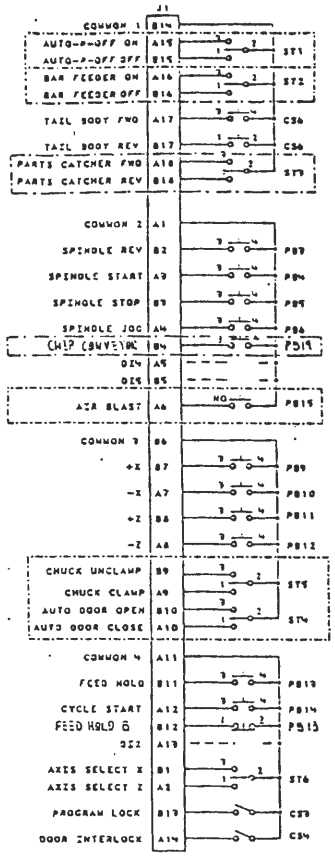
CONTROL MAZATROL T32B
DRAWING NO. 34106A1702A
SHEET ____ OF ____
SIZE 3

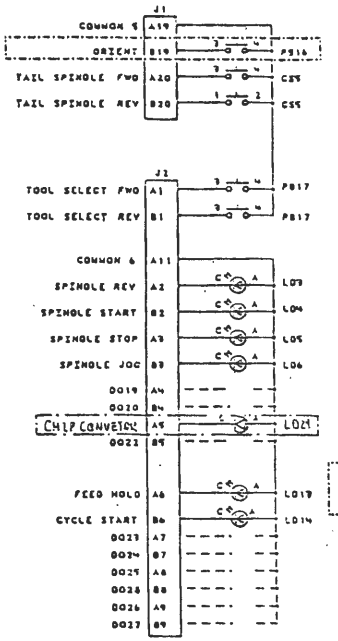
SHEET 702 LINE
INDEX NUMBER

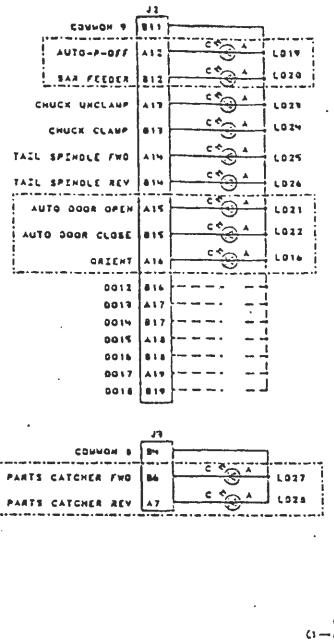


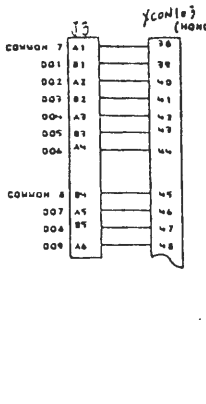


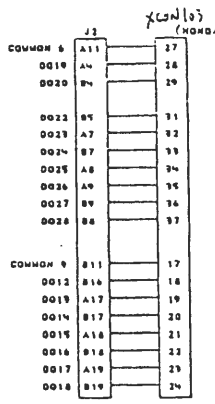
DRAWING NO
SHEET ____ OF ____

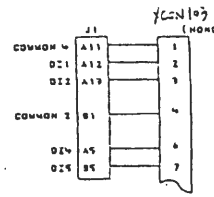


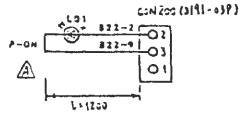


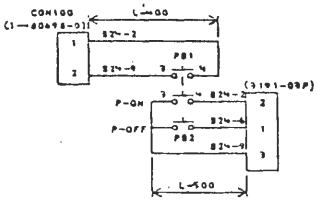




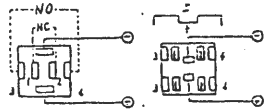








注1. 指示ナキ配線ハ、B24-9トスル
2. 1) コネククJ1～J3ノ配線ハMSC13、19デ行ク、
2) 配線ハMSC18、19ノ フラットケーブルヲ ニズツ分岐シテ行ク、
3) コネクク (J1、J2) カラノオプション線ハ、カシメ後、ホングノ コネククニ 挿入スル、(CON1)
4) 未使用線ハ、切断シナイ、
3. PBノ端子ハ以下ノ通リデアル、



4. 一点鎖線デ囲マレタ部分ハ、標準添付スル、
5. J3コネククCON1ノ接続ハMSC11ヲ使用スル、
6. トグルスイッチ ハ ST3ヲ施イテ 上側ヲ1ピントスル、

(表面見ル図)

機能		シンボル		機能		シンボル
TAIL SPINDLE / TAIL BOOT	FWD			AUTO DOOR	OPEN	
	STOP				CLOSE	
	REV					
BAR FEEDER	ON			CHUCK	UN CLAMP	
	OFF				CLAMP	
PARTS CATCHER	REV			AUTO POWER OFF	ON	
	FWD				OFF	

INDEX NUMBER	LINE	APPROVED	DESIGNED	DRAWN	TITLE	CONTROL	LINE
SHEET 204		'91.1.22 A.G	'91.1.19 K.Y		NC OPERATING PANEL (YZ203B-3)	MAZATROL T32B	SHEET 204 INDEX NUMBER
⚠ Changed YZ203A-3→YZ203B-3 '91.1.19 K.Y					Mazak YAMAZAKI MAZAK CORPORATION	DRAWING NO. 3410A1704A SHEET 3 OF	SIZE 3

PARTS LIST	MACHINE	UNIT	SET NO.	PAGE
	QT-15N	ELECTRICAL CABINET	34106KA	2/4

PARTS NO.	PARTS NAME		REMARKS	MAKER	QTY
RELAY PANEL	A.V.R.	EY242R1U	DC24V, 2.1A	SHINDENGEN	1
	Circuit Breaker	UPL1-1REG2 22368-3	CB6 (5A)	AIRPAX	1
	〃	UPL1-1REG2 22368-9	CB3 (10A)	〃	1
	AC Outlet	WK-3001	SOC	MATSUSHITA	1
	Resistor	RWH60V-150ΩJ	R30		1
	Capasitor	CB120100 200WV. 10MF	C4	ORIENTAL MOTOR	1
	Terminal	F15-36P	TB-R	KOKUSAI	1
	End Barrier	F15E	〃	〃	4
	Lock Bracket	FK-1	〃	〃	2
	Rail	BLF-1000	〃	〃	14"
MC PANEL	Motor Starter	S-K11KPUL	MC. MV. MCA MOT. EMGO	MITSUBISHI	5
	Thermal Overload	TH-K12KPUL 9A	TH-7 (MOT)	〃	1
	〃	〃 2.1A	TH-3 (MC) TH-9 (MCA)	〃	2
	〃	〃 1.7A	TH-6 (MV)	〃	1
	Surge Suppresor	3-1RC3333	SK1.2.3.9 SK8-1.2.3.4	R.K.ELECTRONICS	4
	〃	RCS1B20	SK9-1	〃	1
TE PANEL	Terminal	F15-63P	TB1	KOKUSAI	1
	End Barrier	F15E	〃	〃	4
	Lock Bracket	FK-1	〃	〃	2
	Surge Suppresor	4RC4722	SK.	R.K.ELECTRONICS	7

PARTS LIST	MACHINE	UNIT	SET NO.	PAGE
	QT-15N	ELECTRICAL CABINET	34106KA	4/4

PARTS NO.	PARTS NAME		REMARKS	MAKER	QTY
	Connector	MS3102A 14S-6S	CON18	AMPHENOL	1
	〃	〃 18-10S	CON15.16	〃	2
	〃	〃 20-15S	CON14	〃	1

Mazak YAMAZAKI MAZAK CORPORATION

1	2
P	

PN 3 8 ページ 改訂

リスト番号 LIST No 7 3 4 1 0 1 R 0 3 0 8

設変 NO	部品番号 PARTS No	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	オプション 80	81
	D35TA0004300	Transistor	2SC2383	Tr1	TOSHIBA	1	1	1	1	1	1	0	1	1								
	D30ZZ0018600	Resistor	RD½PNB 1kΩ J	RBE		1	1	1	1	1	1	0	1	1								
	D30ZZ0018800	do	RS3B471-J	RC		1	1	1	1	1	1	0	1	1								
	D30ZZ0018700	do	RD½PNB 33kΩ J	RB		1	1	1	1	1	1	0	1	1								
		Brake pack	DZ-910Z	BP1	MATSUSHITA	0	0	0	0	0	0	0	0	0								
		Brake socket	AT-7803		do	0	0	0	0	0	0	0	0	0								
	D27MB0001500	SSR	AQ-2017	SSR	do	0	0	0	0	0	0	0	0	0								
	D34MB0014100	Zenner diode	MA-1150	DI1. DI2	do	0	0	0	0	0	0	0	0	0								
	D30NF0016800	Resistor	RWH100G 30Ω	RSB, RSC	TOKYO DENKO	0	0	0	0	0	0	0	0	0								
	D30NF0016900	do	RWH30G 3Ω	RSA	do	0	0	0	0	0	0	0	0	0								
		do	ERG1ANJ122	RSD. RSE	MATSUSHITA DENSHI	0	0	0	0	0	0	0	0	0								
		do	ERG1ANJ102	RSF	do	0	0	0	0	0	0	0	0	0								
		Condensor	SH-N CAP 200VAC 40MF	C1	MATSUSHITA	0	0	0	0	0	0	0	0	0								
	D34NM0014400	Diode	10E-2	D1. D2	NIHON INTER.	0	0	0	0	0	0	0	0	0								
	D53SC0008800	Lug plate	L3522-15P			0	0	0	0	0	0	0	0	0								
		Faston Terminals	170213-3 RECEP	LS-10 27	NIHON AMP	2	2	2	2	2	2	2	2	2								
		do SLEEVE	1-170823-5		do	2	2	2	2	2	2	2	2	2								
		No Fuse Breaker	NF30SS 3P 20A	CB4	MITSUBISHI	1	1	1	1	0	0	0	1	0								
		Terminal Unit	TE-K2-20S	TB1	do	5	5	5	5	5	5	0	5	5								
		do	M113DL-20AKC	TB2	MORMATU DENSHI	8	8	8	8	8	8	0	8	8								
		do	TE-K2-6S	TB	MITSUBISHI	D	0	1	1	1	1	0	1	1								

2-4

Mazak YAMAZAKI MAZAK CORPORATION

P	

PN 3 8 ページ 改訂

リスト番号 LIST No 7 3 4 1 0 1 R 0 4 1 1

設変 NO	部品番号 PARTS No	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	オプション 80	81
	D04TC0001000	Power relay	LY-2 DC24V		TATEISHI	11	11	11	11	11	11	11	11	11								
	D04TC0001200	Relay socket	PT08		do	31	31	33	33	33	33	0	33	33								
	D04TC0001500	Relay holder	PYC-P (LY2)		do	14	14	14	14	14	14	14	14	14								
	D04TC0000100	Control relay	G2A-232A DC 24V		do	6	6	6	6	6	6	6	6	6								
	D04TC0000300	Relay socket	PY14		do	19	19	19	19	19	19	0	19	19								
	D04TC0000600	Relay holder	PYC-3		do	6	6	6	6	6	6	6	6	6								
	D34MH0014400	Diode	10E-2			47	47	50	50	50	50	0	50	50								
	D51MA0067900	Circuit Protector	CPB-1P-A21AH-1A	CB7	MITSUBISHI	0	0	0	0	0	0	0	0	0								
	D51MA0040800	Circuit protector	CPB-1P-A21AM-5A	CB6	MITSUBISHI	1	1	1	1	1	1	0	1	1								
	D51MA0040700	do	CPB-1P-A21AM-10A	CB3	do	1	1	1	1	1	1	0	1	1								
	D27TC0001600	SSR Relay	G3H-2035	TUCL	TATEISHI	3	3	3	3	3	3	0	3	3								
		do	G3H-2035L		OMRON	0	0	0	0	0	0	3	0	0								
	D53MB0000020	AC outlet	WK-3001	SBC	MATSUSHITA	1	1	1	1	1	1	0	1	1								
		Power supply	V1-050-24	AVR		0	0	0	0	0	0	0	0	0								
	D17NB0000020	Toggle switch	S-6A		NIHON KAIHEIKI	0	0	0	0	0	0	0	0	0								
	D17NB0000280	do	S-1A		do	1	1	1	1	1	1	1	1	1								
		AVR	EY242R1 (SON 2.1A)		SHIN DENGEN	1	1	1	1	1	1	0	1	1								
		Name Plate	TAIL BODY CLAMP-UNCLAMP			1	1	1	1	1	1	1	1	1								
	D43ZZ0013300	Spark killer	SK469A			9	9	9	9	9	9	0	9	9								
		Relay base plate	PYP-18		TATEISHI	0	0	0	0	0	0	0	0	0								
	D30MP0018400	Resistor	MG305N221K	R8		0	0	0	0	0	0	0	0	0								

YAMAZAKI MAZAK CORPORATION

P	1	2

| PN | | |

機種	341	PARTS LIST	ユニット	OPTION 2	LIST No	UN	ページ	改訂	全頁数
						7341070R	0101		2

変更No 技術No	識別 9 10	区分 SEC. 11	ユニット番号 UNIT No 12 22	SPECIFICATION OF UNIT	組図 No.	リスト No.	SET No	処理日
	PD	A	7341070100 1	TOOL EYE				
		B						
		C						
		D						
		E						
		F						
		G						
		H						
		J						
		K						
		L						
		M						
		N						
		P						
		Q						

様式No. 012-1

Mazak YAMAZAKI MAZAK CORPORATION

リスト番号 LIST No	UN	ページ	改訂
	P 7341020R	0201	

設変 NO	部品番号 PARTS No 9 19	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY 20 79 A B C D E F G H J K L M N P Q	処理 80
	D30SV00170 0	RESISTOR	150Ω 60W	R30	SHUMEI DENKO	1	
		CONDENSER	10μF 200WV	C4	ORIENTAL	1	
	-D43PA000030	SPARK KILLER	CR50550BL		OKAYA	2	
	D04TC000100	RELAY	LY-2 DC24V		TATEISHI	4	
	D04TC000150	RELAY HOLDER	PYC-P (LY2)		do	4	
	D04TC000010	RELAY	G2A DC24V		do	1	
	D04TC000060	RELAY HOLDER	PYC-3 (G2A)		do	1	
	D25MB000110	BUZZER	EB114 DHB-29 (DC24V)		HATSUSHITA	1	
PD	D60NT003600	Connector (PLUG Housing)	1-480698-0		NIHON AMP	04	
PD	D60MT003760	do (pin)	350547-6		do	08	
PD	D60NT003620	do (PLUG Housing)	1-480700-0		do	02	
PD	D60NT003610	do (CAP Housing)	1-480699-0		do	04	
PD	D60MT003770	do (socket)	350550-6		do	08	
PD	D60NT003630	do (CAP Housing)	1-480701-0		do	02	
	D64KK000030	Cap Con.	NC-1		KITAGAWA	2	

様式No. 012-A1

1	2
U	

UN 3 4 5 6 7 8 ページ 枝番

機種 341 | PARTS LIST | ユニット OPTION 4 | LIST No 7 3 4 1 0 9 R 0 1 0 5 | 全頁数 4

変更No 技術No	識別 9 10	区分 SEC. 11	ユニット番号 UNIT No 12–22	SPECIFICATION OF UNIT	組図 No.	リスト No.	SET No	変更処理日
	PA	A	7341090100 1	FLEX I/F (Japan)	FLEX-1M/3M	T20		
	PA	B	7341090200 1	DO (Export)	do	do.		
	PA	C	7341090300 1	FLEX I/F + SAFETY COVER	do	do.		
	PA UA	D	7341090400 1	FLEX I/F (JAPAN) (CHUCKER PANEL)	do	do.		
	UA	E	7341090500 0	FLEX I/F	do	T32-2		
	UA	F	7341090600 0	FLEX I/F + SAFETY COVER	do.	do.		
	UA	G	7341090700 0	FLEX I/F	do.	T32B		
	UA	H	7341090800 0	FLEX, I/F + SAFETY COVER	do.	do.		
		J						
		K						
		L						
		M						
		N						
		P						
		Q						

出図 1991. 1.22 Mazak

様式No. 012-1

Mazak YAMAZAKI MAZAK CORPORATION

1	2
P	

UN 3 8 ページ 枝番

リスト番号 LIST No 7 3 4 1 0 9 R 0 2 0 5

設変 NO	部品番号 PARTS No 9–19	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY 20–79 A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	スペアパーツ 1/80	31
		Option Card	FX 53-2		MITSUBISHI	1	0	0	1	0	0	0	0									
	D01MA0540000	Magnetic Contactor	S-K11 AC100V	MR	do	1	1	1	1	1	1	1	1									
	D01MA0501700	do	MSO-K11TP AC100V 6.6A	MOTR	do	1	1	1	1	1	1	1	1									
	D43FB0003400	Spark Killer	S-1B	SK80 SK31	FUJI	2	2	2	2	2	2	2	2									
	D43PA0005200	do	3CRH-30330	SK8	OKAYA	1	1	1	1	1	1	1	1									
	D04TC0000110	Control Relay	G2A (DC24V)	CYCE.SSOP,RHPS EDOP.EDCL	TATEISHI	5	5	5	5	2	2	2	2									
	D04TC0000130	Power Relay	LY2 (DC24V)	SAFT.AZ	do	2	2	2	2	3	3	3	3									
	D04TC0000160	Relay Holder	PYC-3 (G2A)		do	5	5	5	5	2	2	2	2									
	D04TC0000150	do	PYC-P (LY2)		do	2	2	2	2	3	3	3	3									
	D06TC0001200	Timer	H3Y-2 DC24V 5SEC	RHPT	do	1	1	1	1	0	0	0	0									
	D06TC0005400	Timer Holder	Y92H-3 (H3Y)		do	1	1	1	1	0	0	0	0									
	D17MB0001300	Toggle Switch	S-308	CHUCK AUTO DOOR	NIKKAI	2	2	2	0	2	2	2	2									
		Cap	AT-402-92K		do	2	2	2	0	2	2	2	2									
	D15NE0013300	Push Botton Switch	MS-2011L/313K(E)	CHUCK AIR BLAST	do	1	1	1	0	1	1	1	1									
	D21PA0000800	LED	RLT7-537PCS (Green)		OKAYA	4	4	4	0	2	2	2	2									
	D21PA0001100	Socket	LH-11		do	4	4	4	0	2	2	2	2									
	D60HE0014200	Connector	HR-50LWFH		HONDA	1	0	0	1	0	0	0	0									
	D60HD0020800	do	MR-50RM.		do	1	0	0	1	0	0	0	0									
PA	D60DA0042200	Canon Connector	MS3102A 32-4MS	RC22	DDK	1	1	1	1	1	1	1	1									
PA	D60ZA0003500	do	MS3102A 28-21P	RC32	do	1	1	1	1	1	1	1	1									

出図 1991. 1.22 Mazak

様式No. 012 A 1

	機種	341	PARTS LIST	ユニット	OPTION 5	LIST No	UN	3 4 5 6 7 8	ページ	改訂	全頁数
							U	7 3 4 1 1 0 R	0 1	0 2	2

変更No 仕様No	識別 9 10	区分 SEC. 11	ユニット番号 UNIT No 12 22	SPECIFICATION OF UNIT	組図 No.	リスト No.	SET No.	変更 処理
		A	7 3 4 1 1 0 0 1 0 0 1	AUTO POWER OFF				
	UA	B	7 3 4 1 1 0 0 2 0 0 0	DO (CHUCKER OPTION PANEL)				
		C						
		D						
		E						
		F						
		G						
		H						
		J						
		K						
		L						
		M						
		N						
		P						
		Q						

P-010

Mazak YAMAZAKI MAZAK CORPORATION

リスト番号 LIST No	UN	3	8	ページ	改訂
	P	7 3 4 1 1 0 R		0 2	0 2

設変 NO		部品番号 PARTS No 9 19	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY 20 79 A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	スペシャル 1 80
		D04TC000100	Power Relay	LY-2 (DC24V)		TATEISHI	1	1														
		D17NB000260	Toggle Switch	S-302		NIKKAI	1	0														
			Cap	AT-402-92K		do	1	0														
		D21PA000080	LED	RLD7-235PCS (R)		OKAYA	1	0														
		D21PA000110	Socket	LH-11		do	1	0														
		D04TC000120	Relay Socket	PT-08 (LY2)		TATEISHI	0	0														
		D04TC000150	Relay Holder	PYC-P (LY2)		do	1	1														
	PA	D17NB000020	TOGGLE SWITCH	S-6A	AUTO POWER OFF	NIPPON KAIHEIKI	0	1														
	PA	D21PA000040	LED	BD1401R (RED)	DO	OKAYA	0	1														
	PA	D30MB000360	RESISTER	1.2KΩ 1W	DO	MATSU-SHITA	0	1														

| | | |

カ-ド

Mazak YAMAZAKI MAZAK CORPORATION

1	2
P	

リスト番号 LIST No	1	2	3	4	5	6	7	ページ 8	9	10
	7	3	4	1	1	3	R	0	3	0	0

設変 NO		部品番号 PARTS No 9–19	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY 20–79 A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	インプット 1–80
	PA	D14FA000200	SELECTOR RING SWITCH	AH25-S2B22		FUJI	0	1														
	PA	4115580220 0	FITTING SEGMENT	4-115-58-0220-0	(HOUSING)		0	1														
	PA	4115580219 0	DO.	4-115-58-0219-0	(PLATE)		0	1														
	PA	D21PA000050	LED	BD1402G (GREEN)		OKAKA	0	2														

	機種	341	PARTS LIST	ユニット	OPTION 11	LIST No	UN 7	3 4	1 1	5 R	ページ 0 1	改訂 0 2	全頁数 2

変更No 注番No	識別 9 10	区分 SEC. 11	ユニット番号 UNIT No 12–22	SPECIFICATION OF UNIT	組図 No.	リスト No.	SET No.	変更処理
		A	7341150100 1	CHUCK AIR BLAST				
	UA	B	7341150200 0	DO (CHUCKER OPTION PANEL)				
		C						
		D						
		E						
		F						
		G						
		H						
		J						
		K						
		L						
		M						
		N						
		P						
		Q						

91-4

Mazak YAMAZAKI MAZAK CORPORATION

リスト番号 LIST No P 7 3 4 1 1 5 R 0 2 0 2

設変 NO	部品番号 PARTS No 9–19	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY 20–29 A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
	D15NB000133 0	Push Button Switch	MB-2011L/B13K (B)		NIKKAI	1	0													
	D04TC000010 0	Power Relay	LY2 (DC24V)	AB	TATEISHI	1	1													
	D04TC000150	Relay Holder	PYC-P (LY2)		do	1	1													
PA	D15FA000240	PUSH BUTTON SWITCH	AH25-FB10		FUJI	0	1													
PA	41155802220 0	FITTING SEGMENT	4-115-58-0220-0	(HOUSING)		0	1													
PA	41155802190	DO	4-115-58-0219-0	(PANEL)		0	1													
PA	D21PA000050	LED	BD1402G (GREEN)		OKAYA	0	1													

	機種	341	PARTS LIST	ユニット	OPTION 13	LIST No	U UN 7 3 4 1 1 7 R	ページ 01	改変 02	全頁数 2

変更No 技術No	識別 9 10	区分 SEC. 11	ユニット番号 UNIT No 12 22	SPECIFICATION OF UNIT	組図 No.	リスト No.	SET No	変更処理日
	PA	A	7341170101001	EARTH LEAKEGE CIRCUIT BREAKER	(DOMESTIC ONLY)	T20		
	JA	B	7341170200000	DO	(DO)	GT15N T2NJ		
	JA	C	7341170300000	DO	(DO)	GT18N T2NJ		
		D						
		E						
		F						
		G						
		H						
		J						
		K						
		L						
		M						
		N						
		P						
		Q						

様式No.012-1

P-18

Mazak YAMAZAKI MAZAK CORPORATION

P PN 3 8 ページ 01 改変 02

リスト番号 LIST No 7341170202

設変 NO		部品番号 PARTS No 9 19	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY 20 79 A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	スペアパーツ 80	81
	PD	D51MA0047940	Circuit Breaker	NV100SB 3P/100A AC200V 2000A-TBL	MITUBISHI	01	0	0															
	PD	D51MA0023500	Handle	07FA	do	01	0	0															
	PA	D51MA0050700	Circuit Breaker	NV100SS 3P-10A AC200V 200mA-TBL	do	1	1	0															
	PA	D51MA0050900	Handle	F10NV	do	1	1	0															
		D51MA0050200	Circuit Breaker	NV225SS 3P-150A AC200V 200mA-TBL	do	0	0	1															
		D51MA0040300	Handle	F20	MITUBISHI	0	1	1															
		D51MA0040400	Packin	For F20	do	0	1	1															

様式No.012 A 4

	機種	341	PARTS LIST	ユニット	OPTION 15	LIST No	U UN 7341/19R0100	ページ	総ページ
									全頁数 2

変更No 技術No	識別 9 10	区分 SEC. 11	ユニット番号 UNIT No 12–22	SPECIFICATION OF UNIT	組図 No.	リスト No.	SET No	変更処理日
		A	7341/1901/000	CHIP CONVEYOR				
		B						
		C						
		D						
		E						
		F						
		G						
		H						
		J						
		K						
		L						
		M						
		N						
		P						
		Q						

様式No.012-1

P-20

Mazak YAMAZAKI MAZAK CORPORATION

リスト番号 LIST No P 7341/19R0200

設変 NO		部品番号 PARTS No 9–19	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY 20–79 A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	スペアパーツ 80
		D60DA0038800	CANNON CONNECTOR	MS3108B 20-15P		DAIICHI DENSHI	1															
		D64ND0034100	BOX CONNECTOR	RBC104		NIHON FLEX	1															
		D64ND0035200	do	RCC104CA2022		do	1															
		D63ND0004100	NIPPOLEX TUBE	SR4		do	A															

様式No.012-A1

Mazak YAMAZAKI MAZAK CORPORATION

1	2
P	

リスト番号 LIST No. 7341211R0301

設変 NO	部品番号 PARTS No.	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
	D64ND00	BOX CONNECTOR	RBC 3/6		NIHON FLEX	1	1	1	0	0										
	D64ND0034500	do	RBC 1/6		do	1	1	1	0	0										
	D64ND0034100	do	RBC 1/04		do	4	4	5	5	5										
	D64ND00	do	RBC 306		do	1	7	2	2	2										
	D63ND0004100	NIPPOLEX TUBE	SR 4		NIHON FLEX	M	L													
	D63ND0004200	do	SR 6		do	M	L													
	D63ND00	do	SR 10		do	M	L													
	D63ND0004400	do	SR 12		do	0	M													
	D63ND0004500	do	SR 16		do	M	0													
	D63ND00	BRADE FLAKE	FBN-3		do	M	M													
	D63ND00	do	FBN-4		do	L	M													
	D51MA0039900	NO FUSE BREAKER	NF225SS 150A(3P)	CB 7	MITSU BISHI	1	0	0	0	0										
	D51MA0040600	do	NI100SS 100A(3PT AC200V)	do	do	0	1	0	1	0										
	D63ND0004300	NIPPOLEX TUBE	SR 8		NIHON FLEX	M	M													
		Twist Pair Cable	0.5SQ																	
		WIRE	IKIV 2SQ	BLACK																
		do	IKIV 2SQ	YELLOW/GREEN																
		do	IKIV 1.5SQ	BLACK																

Mazak YAMAZAKI MAZAK CORPORATION

1	2
P	

リスト番号 LIST No. 7341211R0401

設変 NO	部品番号 PARTS No.	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
		WIRE	Irrax 0.75SQ	RED																
			Irrax 1.25SQ	RED																
			Irrax 0.5SQ	BLUE																
			Irrax 0.75SQ	BLUE																
			LMFC 38SQ	BLACK				M	M	M										
			VCT 0.75SQ x 2C																	
			VCT 1.25SQ x 4C																	
			VSF 0.75SQ	RED																
			VSF 0.75SQ	BLACK																
			VSF 0.75SQ	BLUE																
	D60DA00435 0	CANNON CONNECTOR	MS3106B 22-14S		DAIICHI DENSHI	1	1	0	0	0										
	D60DA00434 0	do	MS3108B 22-14S	CARX.2	do	1	1	2	2	2										
	D60DA00400 40	do	MS3101A 28-21P	TURRET	do	1	1	0	0	0										
	D60DA00034 90	do	MS3101A 20-15P	do	do	1	1	0	0	0										
	D60DA00108 0	do	MS3057-16A	do	do	1	1	1	1	1										
	D60DA00473 0	do	MS3057-12A	do	do	1	1	1	1	1										
	D60DA00077 0	do	MS3108B 28-21S	CON11	do	1	1	1	1	1										
	D60DA00035 0	do	MS3102A 28-21P	do	do	0	0	1	1	1										
	D60DA00345 0	do	MS3102A 20-15P	CON12	do	0	0	1	1	1										

	機種	341	PARTS LIST	ユニット	BAR FEEDER	LIST No	U UN 3 4 5 6 7 8	ページ	改定
							7 3 4 1 2 2 R	0 1	0 3

全頁数 2

変更No 技術No	識別 9 10	区分 SEC. 11	ユニット番号 UNIT No 12 22	SPECIFICATION OF UNIT	組図 No.	リスト No.	SET No	変更処理日
	PC	A	7 3 4 1 2 2 0 1 0 0 1	IKURA BAR FEEDER I/F	T20			
	PC	B	7 3 4 1 2 2 0 2 0 0 1	YMD BAR FEEDER I/F	do			
	UA	C	7 3 4 1 2 2 0 3 0 0 0	IKURA BAR FEEDER I/F	T2NJ			
	UA	D	7 3 4 1 2 2 0 4 0 0 0	YMD BAR FEEDER I/F	do			
	UA	E	7 3 4 1 2 2 0 5 0 0 0	YME CYCLE BAR FEEDER I/F	do			
		F						
		G						
		H						
		J						
		K						
		L						
		M						
		N						
		P						
		Q						

様式No.012-1

Mazak YAMAZAKI MAZAK CORPORATION

P-27

リスト番号 LIST No	1 2 P	1'N 3 8	ページ	改定
		7 3 4 1 2 2 R	0 2	0 3

設変 NO		部品番号 PARTS No 9 19	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY 20 A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	予備
		D04TC00000V0	Control Relay	G2A (DC24V)		TATEISHI	5	6	4	4	16											
	PC	D04TC00001000	Power Relay	LY2 (DC24V)		do	2本	0	1	0	0											
		D04TC00000660	Relay Holder	PYC-3 (G2A)		do	5	6	4	4	16											
	PC	D04TC00001550	do	PYC-P (LY2)		do	2本	0	1	0	0											
	PC	D04TC00000330	Relay Socket	PY-14 (G2A)		do	0	1/2	0	0	11											
	PA	D13FA00004200	Select Switch	AH25-P2B22		FUJI	0	0	0	0	1											
	PA	D15FA00002400	Push Button Switch	AH25-FB10	FMB TURBO BAR FEEDER	do	0	0	0	0	1											
		D60EA00004100	Connector	MS3102A 18-10S		DAITCHI DENSHI	1	1	1	1	1											
		D60DA00002300	do	MS3102A 20-27S		do	1	1	1	1	0											
	PA	D60HD00013600	do	MR-50LFH	CN14	HONDA	0	0	0	0	1											
		D06TC00006200	Timer	H3Y-4 DC24V 5sec		TATEISHI	0	1	0	0	0											
		D04TC00004900	Timer Holder	PYC-11 (H3Y-4)		do	0	1	0	0	0											
		D34MA00002700	Diode	SR1FM-4		MITUBISHI	0	2	0	0	11											
		D51HA00041500	No Fuse Breaker	NF30-SS-3P 10A BK		do	0	1	0	1	1											
	PD	D53TD00019400	Terminal Unit	CTL-15×20P		TOYO DIKEN	0	0/4	0	0	0											
		D43PA00005200	Spark killer	3CRH-30300		OKAYA	0	1	0	1	1											
		D60DA00011600	Dust Cap	MS25043-20D		DAITCHI DENSHI	1	1	1	1	0											
		D60DA00011800	do	MS25043-18D		do	1	1	1	1	0											
	PA	D60DA00003000	Canon Connector	MS3102A 28-21S		DDK	0	0	0	0	1											
	PA	D60DA00005800	do	MS3106B 28-21P		do	0	0	0	0	1											

様式No.012 A 4

機種	341	PARTS LIST	ユニット	OPTION 6	LIST No	UN 7341260P0101	全頁数 2

変更No 技術No	識別 9 10	区分 SEC. 11	ユニット番号 UNIT No 12–22	SPECIFICATION OF UNIT	組図 No.	リスト No.	SET No	変更処理日
	PD	A	7341260100 1	YME SPECIFICATION				
	PD	B	7341260200 1	HYD. PRESSURE INTERLOCK				
		C						
		D						
		E						
		F						
		G						
		H						
		J						
		K						
		L						
		M						
		N						
		P						
		Q						

書式No.012-1

97-d

Mazak YAMAZAKI MAZAK CORPORATION

リスト番号 LIST No P 7341/26P0201

変更NO		部品番号 PARTS No	部品名称 PARTS NAME 英文	カタカナ	備考 REMARKS	材質 MTL	使用個数 QTY A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
		D56YC000190	⅜ MARK	3405 0700080		Yamazaki	1	0													
		D56YC000210	½ MARK	4114609005-0		do	1	0													
		D56YC000350	I MARK	4114609114-0		do	1	0													
		D56YC000360	0 MARK	4114609115-0		do	1	0													
	PD	U51MA002680	Lock COVER	for 137A		MITSUBISHI	2	0													
		D56SJ000180	Lock	40×21×6		ski Lock	1	0													
		D04TC000010	Relay	G2A (DC24V)		TATEISHI	1	1													
		D04TC000060	Relay Holder	PYC-3 (G2A)		do	1	1													
	PD	D60NT003600	Connector (Plug)	1-480698-0		NIHON AMP	0	0													
	PD	D60NT003610	do (Cap)	1-480699-0		do	0	0													
	PD	D60NT003760	do (pin)	350547-6		do	2	2													
			Captire Cable	VCT0.75sq×2C			m	m													
		D64KK000030	Cap Con	NC-1		KITAGAWA	6	1													
	PA		Captire Cable	VCT0.75sq×4C			m	0													

P.28-E

Mazak YAMAZAKI MAZAK CORPORATION

| | | |